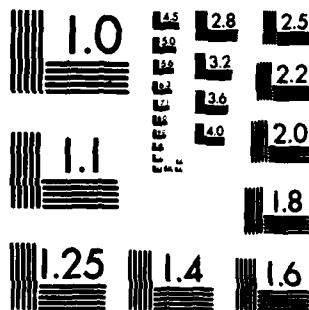


WATERBORNE COMMERCE OF THE UNITED STATES CALENDAR YEAR  
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WATERBORNE COMMERCE  
OF THE UNITED STATES

CALENDAR YEAR 1980

PART 3  
WATERWAYS AND HARBORS  
GREAT LAKES



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| 1. REPORT NUMBER<br>WRSC-WCUS-80-3  | 2. GOVT ACCESSION NO.<br>AD-A121677 | 3. RECIPIENT'S CATALOG NUMBER  |
| 4. TITLE (and Subtitle)<br>WATERBORNE COMMERCE OF THE UNITED STATES<br>Calendar Year 1980<br>Part 3 Waterways and Harbors, Great Lakes  |                                     | 5. TYPE OF REPORT & PERIOD COVERED<br>Annual Publication<br>Calendar Year 1980 |
| 7. AUTHOR(s)<br>Department of the Army<br>Corps of Engineers  |                                     | 6. PERFORMING ORG. REPORT NUMBER   |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS<br>Waterborne Commerce Statistics Center<br>P. O. Box 61280<br>New Orleans, La. 70161 WRSC-CC   |                                     | 8. CONTRACT OR GRANT NUMBER(s)   |
| 11. CONTROLLING OFFICE NAME AND ADDRESS<br>Office, Chief of Engineers, U. S. Army DAEN-CW<br>Forrestal Bldg, Stop 391<br>1100 Independence Ave., SW Wash, DC 20314  |                                     | 10. PROGRAM ELEMENT, PROJECT, TASK<br>AREA & WORK UNIT NUMBERS                 |
| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)<br>Water Resources Support Center<br>Data Collection Management Division<br>Casey Bldg.<br>Fort Belvoir, Va. 22060 WRSC-C   |                                     | 12. REPORT DATE<br>September 1982  |
|   |                                     | 13. NUMBER OF PAGES<br>100   |
|   |                                     | 15. SECURITY CLASS. (of this report)<br>Unclassified                           |
| 16. DISTRIBUTION STATEMENT (of this Report)<br><br>Approved for public release; distribution unlimited  |                                     | 15a. DECLASSIFICATION/DOWNGRADING<br>SCHEDULE                                  |
| 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)  |                                     |  |
| 18. SUPPLEMENTARY NOTES<br><br>Available from: National Technical Information Service (NTIS)<br>5285 Port Royal Road<br>Springfield, Va. 22161  |                                     |  |
| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number)<br><br>Waterborne Commerce - - Statistics  |                                     |  |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number)<br><br>Waterborne Commerce of the United States (WCUS), Part 3, calendar year 1980 is one of a series of 5 publications containing statistics on the commercial movement of foreign and domestic cargo. WCUS, Part 3, presents detailed data by commodity and traffic for the waterways and harbors on the Great Lakes. The statistics include commodities given in short tons (2000 lbs) and vessel trips for the harbors and waterways. |                                     |  |



# WATERBORNE COMMERCE OF THE UNITED STATES

CALENDAR YEAR 1980

PART 3  
WATERWAYS AND HARBORS  
GREAT LAKES

COMPILED UNDER THE SUPERVISION OF  
THE WATER RESOURCES SUPPORT CENTER  
U. S. ARMY CORPS OF ENGINEER  
FORT BELVOIR, VIRGINIA

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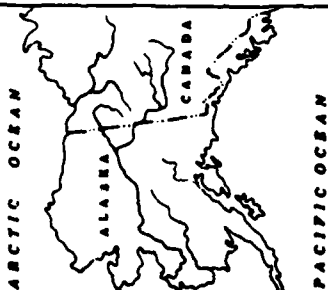
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Geographical Areas Covered by  
Waterborne Commerce Statistics Publications  
of the  
DEPARTMENT OF THE ARMY CORPS OF ENGINEERS

(Heavy broken lines indicate the limits embraced by  
each part of the five-part series)

**PART 4**



**INLAND WATERWAYS LEGEND**

— PRINCIPAL IMPROVED WATERWAYS  
..... (IN OPEN WATER)

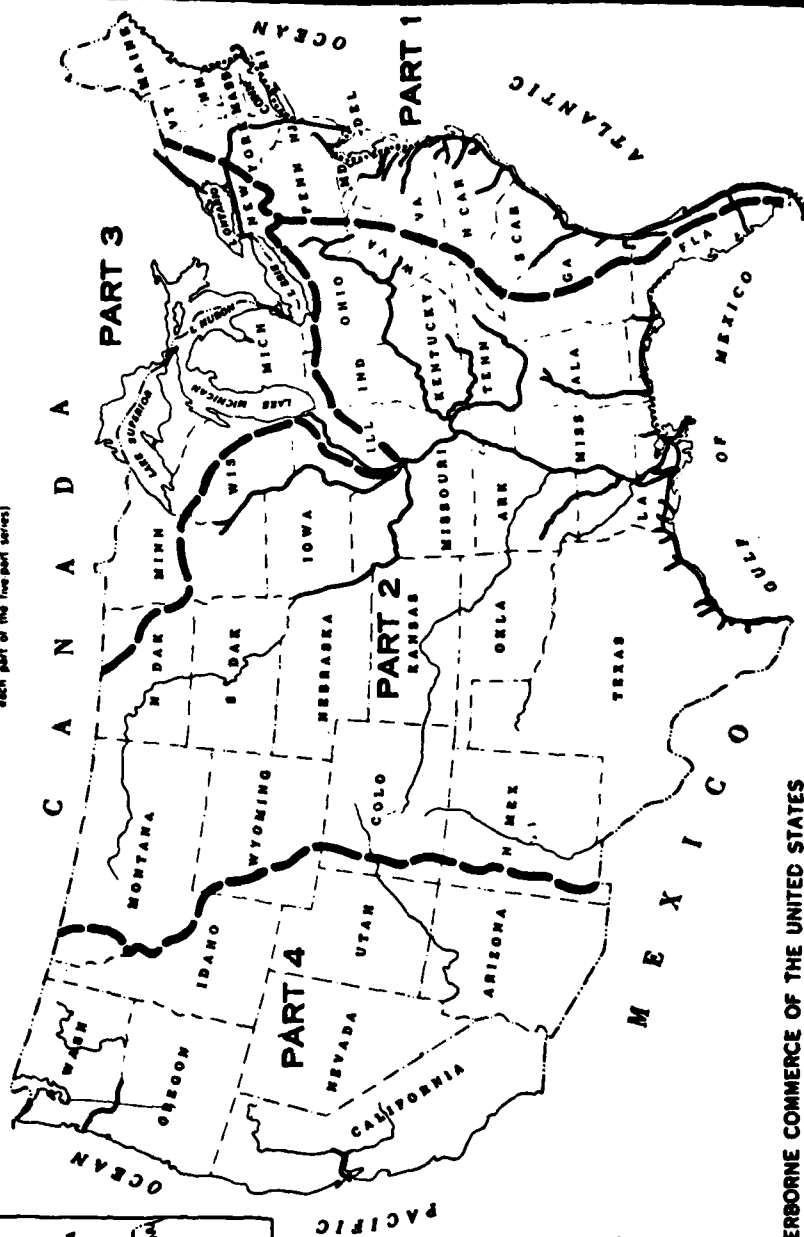
**PART 4**

PACIFIC OCEAN



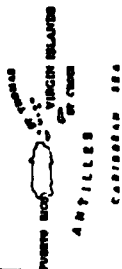
**WATERBORNE COMMERCE OF THE UNITED STATES**

- Part 1 - Atlantic Coast
- Part 2 - Gulf Coast, Mississippi River System and Antilles
- Part 3 - Great Lakes
- Part 4 - Pacific Coast, Alaska and Hawaii
- Part 5 - Waterborne Commerce of the United States  
(National Summary)



**PART 2**

ATLANTIC OCEAN



**PART 5**

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## INTRODUCTION

This publication is one of a series containing statistics on the waterborne commerce of the United States during the calendar year 1980. Four of these publications present detailed data on the movements of commodities and vessels at the ports and harbors and on the waterways and canals of the United States, the Commonwealth of Puerto Rico, and the Virgin Islands, and the fifth contains summary data of the country as a whole. The numbers of the publications and the areas covered are:

### Area

- Part 1. Atlantic Coast
- Part 2. Gulf Coast, Mississippi River System, and Antilles
- Part 3. Great Lakes
- Part 4. Pacific Coast, Alaska, and Hawaii
- Part 5. Waterborne Commerce of the United States (National Summaries)

Both the foreign and domestic commerce of the United States by water are included. Data on the foreign commerce were supplied to the Corps of Engineers by the Bureau of the Census; data for the compilation of the domestic statistics were collected by the several offices of the Corps of Engineers, Department of the Army, in compliance with various acts of Congress. The principal provision governing the collection of these data is included in the River and Harbor Act of September 22, 1922:

Sec. 11. That owners, agents, masters, and clerks of vessels and other craft plying upon the navigable waters of the United States, and all individuals and corporations engaged in transporting their own goods upon the navigable waters of the United States, shall furnish such statements relative to vessels, passengers, freight and tonnage as may be required by the Secretary of War: Provided, that this provision shall not apply to those rafting logs, except upon a direct request upon the owner to furnish specific information.

That every person or persons offending against the provisions of this section shall, for each and every offense, be liable to a fine of \$100 or imprisonment not exceeding two months, to be enforced in any district court in the United States within whose territorial jurisdiction such offense may have been committed.

While the information as now collected and compiled is designed to meet the administrative requirements of the Department of the Army in connection with the duties assigned by Congress, it also provides useful data for other governmental departments, commercial and shipping concerns, and others interested in transportation.

Waterborne traffic movements were reported to the Corps of Engineers by all vessel operators of record on prescribed forms approved by the Office of Management and Budget under the Federal Reports Act of 1942 for those movements of their vessels which were classified as domestic traffic; namely, between United States ports, continental and noncontiguous, and on the inland rivers, canals, and connecting channels of the United States, Puerto Rico, and the Virgin Islands, excluding the Panama Canal. The reports were generally submitted on the basis of a vessel movement completed in one direction and, for movements with cargo, the origin and destination of the water transportation of each individual commodity. In compiling the data, the entire movement was included in the year in which the movement was completed even though the shipment may have originated in the preceding year, except that, beginning with calendar year 1961 statistics, a cutoff date of 28 February was established for the processing of reports from vessel operators covering the prior year's completed movements. Hence, reports of movements completed in 1980 but not reported to the Corps of Engineers until after 28 February 1981 will be included in the next year's, 1981, statistics rather than in this publication, while reports of movements completed in 1979 but reported to the Corps after 28 February 1980 are included in this publication.

Sponsored by the Office of Statistical Policy, Office of Management and Budget, a uniform system of classification for freight was developed with cooperation of all Federal agencies engaged in collecting and compiling data on shipping. This classification, the Commodity Classification for Domestic Waterborne Commerce, is used for data on the foreign and domestic commerce presented in these publications, although some minor modifications exist in the foreign data which were necessitated by Bureau of the Census policies and procedures.

The domestic traffic includes all commercial movements between points in the United States, Puerto Rico, and the Virgin Islands. Traffic with the Panama Canal Zone is treated as foreign commerce. Cargo moved for the military agencies in commercial vessels is reported as ordinary commercial cargo; military cargo moved in Department of Defense vessels is omitted from these statistics.

All movements between the United States and foreign countries and between Puerto Rico and Virgin Islands, U.S.A., and foreign countries are classified as foreign traffic. Trade between United States territories and possessions, i.e. Guam, Wake, American Samoa, etc., and foreign countries is excluded.

These data are furnished to the Corps of Engineers by the Bureau of the Census under a working arrangement sponsored by the Office of Statistical Policy, Office of Management and Budget. The data are confined to movements by water, and are reconcilable with published reports of the Bureau of the Census. Shipments of domestic merchandise and re-exports of foreign merchandise are termed exports. The imports include inbound merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses. Intransit merchandise, defined by the Bureau of the Census as merchandise coming into the United States from a foreign country and shipped to a foreign country without having been entered as an import, is treated as an import when unloaded from a vessel and as an export when loaded on a vessel. Export shipments for use of the United States Armed Forces abroad are excluded from the statistics as are import shipments on Department of Defense owned and operated vessels. Foreign trade data of territories and possessions other than Puerto Rico and the Virgin Islands, which are under the jurisdiction of the Department of the Interior, were not furnished to the Corps of Engineers by the Bureau of the Census and are excluded from the statistics of both agencies.

Export shipments under the various foreign aid programs on Department of Defense operated vessels, either American Flag commercial vessels under time, voyage, or space charter or vessels owned and operated by the Department of Defense, and various items (listed by the Census) which affect national security are not published in terms of the individual commodities shipped. Instead, a lump-sum tonnage figure is compiled and appears in these tables as commodity code 9999, "Department of Defense controlled cargo and Special Category Items."

The 1980 statistics on waterborne exports of domestic and foreign merchandise and non-Department of Defense shipments of Special Category commodities reflect fully compiled data for shipments to Canada individually valued at \$2,000 and over combined with estimated data for shipments valued \$251-\$1,999, based on a 10-percent sample of such shipments. For countries other than Canada, the export statistics reflect fully compiled data for shipments valued \$1,000 and over combined with estimated data for shipments valued \$251-\$999, based on a 50-percent sample of such shipments. Data on export shipments valued under \$251 are excluded from this report.

Import statistics for 1980 exclude data on shipments valued \$250 and under reported on both formal and informal entries. Informal entries generally contain items valued not more than \$250.

Foreign trade data furnished by Census are based on reports processed for Census' monthly data January through December and represent statistical year rather than calendar year data.

The figures on ton-miles are computed by the Corps of Engineers; each ton-mile figure reflects only the distance each ton of cargo, foreign or domestic, moved on the waterway described in the section for which the figure is reported. The summary of ton-miles for the entire United States contained in Part 5 includes movements on the inland waterways and Great Lakes System only; cargoes, foreign and domestic, of deep-sea vessels are included only for that portion of the voyage that occurred in inland rivers, canals, or connecting channels—neither the carriage on the oceans and the Gulf of Mexico nor the tonnage moved among the territories and possessions, "Intra-territory Traffic," are taken into account.

Trips of vessels at ports are reported as inbound, which represents the number of entrances or arrivals; and outbound, which represents the number of clearances or departures. On the waterways, the number of trips signifies the number of individual vessel movements on the waterway in each direction; a single trip is counted for each vessel using the waterway in a continuous direction regardless of the number of stops made on the waterway. Some towboat trips and empty barge moves are sampled to expedite processing and reduce cost. Even with sampling, however, the number of towboat trips are calculated from better than 70% of the total number of towboat moves reported and the number of barge trips are derived from better than 85% of the total number of barge moves reported. The number of trips reported includes vessels engaged in foreign trade, which are furnished by the Bureau of the Census based on Customs Entrance and Clearance forms. Complete information on trips of vessels, ferry and other, not required to clear formally was not furnished by the Bureau of Customs beginning with data for the year 1969. Adjustments are made to the trip counts, if necessary, to more accurately reflect actual traffic patterns (e.g. inbound vs. outbound trip counts).

Customs regulations with regard to entrance and clearance do not provide all data as required by the Corps of Engineers where supplementary information could be obtained, adjustments were made by the Corps of Engineers to reflect the true volume of vessel movements in and out of channels and harbors reported in these publications.

Excluded from these figures are United States Army and Navy vessels, such as Army transports and Navy tankers entering or clearing without commercial cargo, and foreign military and naval craft.

Some duplication may exist in the number of vessel trips at ports for those American Flag vessels engaging both foreign and domestic trade on the same voyage. Since movements of vessels and cargo between two United States ports are reported to the Corps of Engineers, and entrance and clearance must be obtained from Customs at each port of call while foreign cargoes are aboard, those vessels engaged in combined foreign and domestic movements may be reported twice.

Draft, in all cases, is the distance from water level to the lowest point of the vessel under-water and is measured when the vessel is completely stopped-either tied to a dock or at anchor. The draft under way-while the vessel is moving-is dependent on many factors, such as speed of the vessel and depth and width of the channel, and varies from channel to channel. Channel depth of at least 3 feet more than the draft of a vessel at dock is required where vessels must be operated at slow speed. Channel depth of 5 feet more than the draft of a vessel at dock is required in channels where vessels can be operated at more efficient and economical speeds.

Passenger arrivals and departures on the various waterways and channels and at ports include passengers engaged in foreign travel. While the Immigration and Naturalization Service, Department of Justice, no longer provides foreign passenger data to the Waterborne Commerce Statistics Center, foreign passengers traveling between Canada and the United States in the Great Lakes and Alaska areas are reported to the Corps of Engineers from other sources available to the Corps. In addition, the New England Division has been able to obtain foreign passenger data for calendar year 1980 in Bar Harbor, Lubec, Eastport and Portland Harbor.

Foreign data on various connecting channels having no terminal facilities, such as Cape Cod Canal, and Chesapeake and Delaware Canal, are not available from Census records. Hence, the Corps of Engineers developed such data from canal records.

SECTION 1 of this publication presents comparative statements of commerce for preceding years and the detailed freight traffic for calendar year 1980 of harbors and waterways in the area covered by this Part of the statistics series. SECTION 2 presents data on the movements of vessels at the harbors and on the waterways included in the first section.

#### TERMS FOR KIND OF TRAFFIC

The terms applied to the kinds of traffic as found in these publications are explained as follows:

##### Pertaining to Ports

Imports and exports.-These terms apply to traffic between the United States and foreign ports, including the Canal Zone. Traffic of U.S. Great Lakes ports with Canada is supplemented by the term "Canadian" to differentiate it from overseas traffic.

Coastwise receipts and shipments.-These terms apply to domestic traffic receiving a carriage over the ocean, or the Gulf of Mexico, e.g. New Orleans to Baltimore, New York to Puerto Rico, San Francisco to Hawaii, or Puerto Rico to Hawaii. Traffic between Great Lakes ports and seacoast ports, when having a carriage over the ocean, is also termed "coastwise." The Chesapeake Bay and Puget Sound are internal bodies of water; therefore, traffic confined to these areas is "internal" rather than "coastwise."

Lakewise receipts and shipments.-These terms apply to traffic between United States ports on the Great Lakes System. The Great Lakes System is treated as a separate system rather than as a part of the inland system.

Internal receipts and shipment.-These terms apply to traffic between ports or landings wherein the entire movement takes place on inland waterways. Also termed internal are movements involving carriage on both inland waterways and waters of the Great Lakes; inland movements that cross short stretches of open waters which link inland systems, marine products, sand and gravel taken directly from beds of the oceans, the Gulf of Mexico and important arms thereof; and movements between offshore installations and inland waterways.

Local.-Movements of freight within the confines of a port whether the port has only one or several arms or channels, except car-ferry and general ferry, are termed "local." The term is also applied to marine products, sand, and gravel taken directly from the Great Lakes.

Intraterritory receipts and shipments.-These terms apply to traffic between ports in Puerto Rico and the Virgin Islands, U.S.A., which are considered as a single unit.

##### Pertaining to Rivers, Federal and Private Canals, Connecting Channels, and Intracoastal Waterways

The terms "imports," "exports," "coastwise receipts," "coastwise shipments," "internal receipts," and "internal shipments" are used as at ports.

Upbound and downbound.-These terms are applied to movements within the confines of a river, intracoastal waterway, canal, or a segment of one of these channels as described in the "Section included" for each channel.

Inbound and outbound.-Traffic moving from one waterway into another is termed "outbound" in the case of the shipping waterway and "inbound" with respect to the receiving waterway.

Through traffic.-Traffic moving through a waterway to and from points on other waterways is termed "through traffic."

#### General Terms

Freight reported under the terms "car ferry" or "general ferry" is not directly included in the port or channel tonnage, but is separately stated and tabulated.

## COMMODITY CLASSIFICATION FOR DOMESTIC WATERBORNE COMMERCE

Note: The commodity descriptions used in the statistical tables in this publication are abbreviated forms to conserve printing space of the following commodities:

| Code No.                                      | Item Name  | Code No.  | Item Name  |
|---|--|---|--|
| Group 01-Farm Products                        |  | Group 21-Tobacco Products   |  |
| 0101  | Cotton, raw  | 2111  | Tobacco manufactures   |
| 0102  | Barley and rye   | Group 22-Basic Textiles   |  |
| 0103  | Corn   | 2211  | Basic textile products, except textile fibers  |
| 0104  | Oats   | 2212  | Textile fibers not elsewhere classified  |
| 0105  | Rice   | Group 23-Apparel and Other Finished Textile Products Including Knit |  |
| 0106  | Sorghum Grains   | 2311  | Apparel and other finished textile products, including knit  |
| 0107  | Wheat  | Group 24-Lumber and Wood Products Except Furniture                  |  |
| 0111  | Soybeans   | 2411  | Logs   |
| 0112  | Flaxseed   | 2412  | Rafted logs  |
| 0119  | Oilseeds, not elsewhere classified   | 2413  | Fuel wood, charcoal, and wastes  |
| 0121  | Tobacco, leaf  | 2414  | Timber, posts, poles, piling, and other wood in the rough  |
| 0122  | Hay and fodder   | 2415  | Pulpwood, log  |
| 0129  | Field crops, not elsewhere classified  | 2416  | Wood chips, staves, moldings, and excelsior  |
| 0131  | Fresh fruits, including imported bananas and plantains                             | 2421  | Lumber   |
| 0132  | Bananas and plantains  | 2431  | Veneer, plywood, and other worked wood   |
| 0133  | Coffee, green and roasted (including instant)                                      | 2491  | Wood manufactures, not elsewhere classified  |
| 0134  | Cocoa beans  | Group 25-Furniture and Fixtures                                     |  |
| 0141  | Fresh and frozen vegetables  | 2511  | Furniture and fixtures   |
| 0151  | Live animals (livestock) except zoo animals, cats, dogs, etc.                      | Group 26-Pulp, Paper and Allied Products                            |  |
| 0161  | Animals and animal products, not elsewhere classified                              | 2611  | Pulp   |
| 0191  | Miscellaneous farm products  | 2621  | Standard newsprint paper   |
| Group 08-Forest Products                      |  | 2631  | Paper and paperboard   |
| 0841  | Crude rubber and allied gums   | 2691  | Pulp, paper and paperboard products, not elsewhere classified  |
| 0861  | Forest products, not elsewhere classified  | Group 27-Printed Matter   |  |
| Group 09-Fresh Fish and Other Marine Products |  | 2711  | Printed matter   |
| 0911  | Fresh fish, except shellfish   | Group 28-Chemicals and Allied Products                              |  |
| 0912  | Shellfish, except prepared or preserved  | 2810  | Sodium hydroxide (caustic soda)  |
| 0913  | Menhaden   | 2811  | Crude products from coal tar, petroleum, and natural gas, except benzene and toluene                   |
| 0931  | Marine shells, unmanufactured  | 2812  | Dyes, organic pigment, dyeing and tanning materials  |
| Group 10-Metallic Ores                        |  | 2813  | Alcohols   |
| 1011  | Iron ore and concentrates  | 2816  | Radioactive and associated materials, including wastes   |
| 1021  | Copper ore and concentrates  | 2817  | Benzene and toluene, crude and commercially pure   |
| 1051  | Bauxite and other aluminum ores and concentrates                                   | 2818  | Sulphuric acid   |
| 1061  | Manganese ores and concentrates  | 2819  | Basic chemicals and basic chemical products, not elsewhere classified                                  |
| 1091  | Nonferrous metal ores and concentrates, not elsewhere classified                   | 2821  | Plastic materials, regenerated cellulose and synthetic resins, including film, sheeting, and laminates |
| Group 11-Coal                                 |  | 2822  | Synthetic rubber   |
| 1121  | Coal and lignite   | 2823  | Synthetic (man-made) fiber   |
| Group 13-Crude Petroleum                      |  | 2831  | Drugs (biological products, medicinal chemicals, botanical products and pharmaceutical preparations)   |
| 1311  | Crude petroleum  | 2841  | Soap, detergents, and cleaning preparations; perfumes, cosmetics, and other toilet preparations        |
| Group 14-Nonmetallic Minerals, Except Fuels   |  | 2851  | Paints, varnishes, lacquers, enamels, and allied products  |
| 1411  | Limestone flux and calcareous stone  | 2861  | Gum and wood chemicals   |
| 1412  | Building stone, unworked   | 2871  | Nitrogenous chemical fertilizers, except mixtures  |
| 1442  | Sand, gravel and crushed rock  | 2872  | Potassic chemical fertilizers, except mixtures   |
| 1451  | Clay, ceramic and refractory materials   | 2873  | Phosphoric chemical fertilizers, except mixtures   |
| 1471  | Phosphate rock   | 2876  | Insecticides, fungicides, pesticides, and disinfectants  |
| 1479  | Natural fertilizer materials, not elsewhere classified                             | 2879  | Fertilizers and fertilizer materials, not elsewhere classified   |
| 1491  | Salt   | 2891  | Miscellaneous chemical products  |
| 1492  | Sulphur, dry   | Group 29-Petroleum and Coal Products                                |  |
| 1493  | Sulphur, liquid  | 2911  | Gasoline, including natural gasoline   |
| 1494  | Gypsum, crude and plasters   | 2912  | Jet fuel   |
| 1499  | Nonmetallic minerals, except fuels, not elsewhere classified                       | 2913  | Kerosene   |
| Group 19-Ordnance and Accessories             |  | 2914  | Distillate fuel oil  |
| 1911  | Ordnance and accessories   | 2915  | Residual fuel oil  |
| Group 20-Food and Kindred Products            |  | 2916  | Lubricating oils and greases   |
| 2011  | Meat, fresh, chilled, or frozen  | 2917  | Naphtha, mineral spirits, solvents, not elsewhere classified   |
| 2012  | Meat and meat products prepared or preserved, including canned meat products       | 2918  | Asphalt, tar, and pitches  |
| 2014  | Tallow, animal fats and oils   | 2920  | Coke, including petroleum coke   |
| 2015  | Animal by-products, not elsewhere classified                                       | 2921  | Liquefied petroleum gases, coal gases, natural gas, and natural gas liquids                            |
| 2021  | Dairy products, except dried milk and cream  | 2951  | Asphalt building materials   |
| 2022  | Dried milk and cream   | 2991  | Petroleum and coal products, not elsewhere classified  |
| 2031  | Fish and fish products, including shellfish, prepared or preserved                 | Group 30-Rubber and Miscellaneous Plastics Products                 |  |
| 2034  | Vegetables and preparations, canned and otherwise prepared and preserved           | 3011  | Rubber and miscellaneous plastics products   |
| 2039  | Fruits, and fruit and vegetable juices, canned and otherwise prepared or preserved | Group 31-Leather and Leather Products                               |  |
| 2041  | Wheat flour and semolina   | 3111  | Leather and leather products   |
| 2042  | Animal feeds   |   |  |
| 2049  | Grain mill products, not elsewhere classified                                      |   |  |
| 2061  | Sugar  |   |  |
| 2062  | Molasses   |   |  |
| 2081  | Alcoholic beverages  |   |  |
| 2091  | Vegetable oils, all grades; margarine and shortening                               |   |  |
| 2092  | Animal oils and fats, not elsewhere classified, including marine                   |   |  |
| 2094  | Groceries  |   |  |
| 2095  | Ice  |   |  |
| 2099  | Miscellaneous food products  |   |  |

| Code No.  | Item Name   |
|---|---|
| Group 32-Stone, Clay, Glass and Concrete Products   |   |
| 3211  | Glass and glass products  |
| 3241  | Building cement   |
| 3251  | Structural clay products, including refractories  |
| 3271  | Lime  |
| 3281  | Cut stone and stone products  |
| 3291  | Miscellaneous nonmetallic mineral products  |
| Group 33-Primary Metal Products   |   |
| 3311  | Pig iron  |
| 3312  | Slag  |
| 3313  | Coke (coal and petroleum), petroleum pitches and asphalts, and naphtha and solvents   |
| 3314  | Iron and steel ingots, and other primary forms, including blanks for tube and pipe, and sponge iron                         |
| 3315  | Iron and steel bars, rods, angles, shapes and sections, including sheet piling  |
| 3316  | Iron and steel plates and sheets  |
| 3317  | Iron and steel pipe and tube  |
| 3318  | Ferrosilloys  |
| 3319  | Primary iron and steel products, not elsewhere classified including castings in the rough                                   |
| 3321  | Nonferrous metals primary smelter product, basic shapes, wire castings and forgings, except copper, lead, zinc and aluminum |
| 3322  | Copper and copper alloys, whether or not refined, unworked  |
| 3323  | Lead and zinc including alloys, unworked  |
| 3324  | Aluminum and aluminum alloys, unworked  |
| Group 34-Fabricated Metal Products, Except Ordnance, Machinery and Transportation Equipment |   |
| 3411  | Fabricated metal products, except ordnance, machinery, and transportation equipment   |
| Group 35-Machinery, Except Electrical   |   |
| 3511  | Machinery, except electrical  |
| Group 36-Electrical Machinery, Equipment and Supplies                                       |   |
| 3611  | Electrical machinery equipment and supplies   |

| Code No.   | Item Name   |
|--|---|
| Group 37-Transportation Equipment  |   |
| 3711   | Motor vehicles, parts and equipment                               |
| 3721   | Aircraft and parts  |
| 3731   | Ships and boats   |
| 3791   | Miscellaneous transportation equipment                            |
| Group 38-Instruments, Photographic and Optical Goods, Watches and Clocks |   |
| 3811   | Instruments, photographic and optical goods, watches and clocks   |
| Group 39-Miscellaneous Products of Manufacturing                         |   |
| 3911   | Miscellaneous products of manufacturing                           |
| Group 40-Waste and Scrap Materials                                       |   |
| 4011   | Iron and steel scrap  |
| 4012   | Nonferrous metal scrap  |
| 4022   | Textile waste, scrap, and sweepings                               |
| 4024   | Paper waste and scrap   |
| 4029   | Waste and scrap, not elsewhere classified                         |
| Group 41-Special Items   |   |
| 4111   | Water   |
| 4112   | Miscellaneous shipments not identifiable by commodity             |
| 4113   | LCL freight   |
| 4118   | Materials used in waterway improvement, Government materials      |
| 4119   | Empty containers  |
| 9999*  | Department of Defense controlled cargo and special category items |

\*Cargoes exported on Department of Defense controlled vessels (other than goods for the use of U.S. Armed Forces abroad) and non-Department of Defense shipments of military component items (abbreviated SCI) for which commodity detail is not furnished to the Corps of Engineers.

TABLE 1 - TON-MILEAGE OF UNITED STATES FREIGHT CARRIED ON THE GREAT LAKES BY AREA, CALENDAR YEAR 1980  
(000 OMITTED)

| AREA   | AREA TOTALS | FOREIGN                |           |                        | DOMESTIC   |                        |         |                        |            |                        |         |                        |
|--|-------------|------------------------|-----------|------------------------|------------|------------------------|---------|------------------------|------------|------------------------|---------|------------------------|
|  |             | OVERSEAS               |           | CANADIAN               |            | COASTWISE              |         | LAKEWISE               |            | INTERNAL               |         | LOCAL                  |
|  |             | RECEIPTS AND SHIPMENTS | THROUGH   | RECEIPTS AND SHIPMENTS | THROUGH    | RECEIPTS AND SHIPMENTS | THROUGH | RECEIPTS AND SHIPMENTS | THROUGH    | RECEIPTS AND SHIPMENTS | THROUGH | RECEIPTS AND SHIPMENTS |
| LAKE SUPERIOR  | 25,225,927  | 1,687,600              | -----     | 3,179,098              | -----      | -----                  | -----   | 20,359,118             | -----      | -----                  | -----   | 31                     |
| ST. MARYS RIVER  | 4,427,957   | 14                     | 277,213   | 6,810                  | 529,816    | -----                  | -----   | 17,009                 | 3,601,094  | -----                  | -----   | 1                      |
| LAKE MICHIGAN INCLUDING THE PORT OF CHICAGO (CHICAGO HARBOR, NORTH BRANCH, SOUTH BRANCH, SANITARY SHIP CANAL, CALUMET-SAG CHANNEL, LAKE CALUMET AND CALLUMET HARBOR AND RIVER) | 19,493,761  | 762,076                | -----     | 2,026,839              | 1,361      | 891                    | -----   | 12,176,890             | -----      | 454,964                | 863     | 68,523                 |
| LAKE HURON   | 20,095,924  | 6,424                  | 1,569,019 | 491,340                | 3,383,333  | -----                  | 49      | 2,714,071              | 11,864,934 | 157                    | -----   | 2,993                  |
| ST. CLAIR RIVER, INCLUDING CHANNELS IN LAKE ST. CLAIR  | 4,689,147   | 1,323                  | 392,360   | 14,349                 | 930,589    | 793                    | 11      | 96,633                 | 3,249,089  | -----                  | -----   | -----                  |
| DETROIT RIVER  | 2,507,684   | 20,648                 | 214,134   | 14,760                 | 552,136    | 1,153                  | 408     | 293,368                | 1,450,996  | -----                  | -----   | 437                    |
| LAKE ERIE, INCLUDING UPPER NIAGARA RIVER   | 14,598,370  | 427,047                | 1,735,916 | 4,108,715              | 2,500,906  | 9,643                  | 16,285  | 5,756,994              | 37,871     | 1,186                  | -----   | 8,373                  |
| WELLAND CANAL  | 1,079,193   | -----                  | 268,213   | 647                    | 793,921    | -----                  | 3,117   | -----                  | 8,700      | -----                  | 999     | -----                  |
| LAKE ONTARIO, INCLUDING LOWER NIAGARA RIVER  | 4,957,409   | 504                    | 1,589,408 | 452,460                | 2,741,079  | -----                  | 18,427  | 29,288                 | 22,857     | -----                  | 7,381   | 1                      |
| ST. LAWRENCE RIVER, BETWEEN INTERNATIONAL BOUNDARY LINE AND LAKE ONTARIO   | 3,070,824   | 939                    | 1,113,920 | 3,239                  | 1,926,088  | 368                    | 12,642  | 11,053                 | -----      | 2,575                  | -----   | -----                  |
| TOTAL  | 96,836,192  | 2,906,729              | 7,159,783 | 10,258,297             | 13,354,823 | 8,708                  | 51,029  | 41,412,424             | 20,334,697 | 456,822                | 8,559   | 80,359                 |

TABLE 2 - FREIGHT TONS OF UNITED STATES TRAFFIC CARRIED ON THE GREAT LAKES BY AREA, CALENDAR YEAR 1980  
(SHORT TONS)

| AREA  | AREA TOTALS | FOREIGN                |           |                        | DOMESTIC   |                        |         |                        |            |                        |           |
|---|-------------|------------------------|-----------|------------------------|------------|------------------------|---------|------------------------|------------|------------------------|-----------|
|   |             | OVERSEAS               |           | CANADIAN               |            | COASTWISE              |         | LAKEWISE               |            | INTERVAL               |           |
|   |             | RECEIPTS AND SHIPMENTS | THROUGH   | RECEIPTS AND SHIPMENTS | THROUGH    | RECEIPTS AND SHIPMENTS | THROUGH | RECEIPTS AND SHIPMENTS | THROUGH    | RECEIPTS AND SHIPMENTS | THROUGH   |
| LAKE SUPERIOR   | 75,096,287  | 4,400,212              | -----     | 11,787,076             | -----      | -----                  | -----   | 58,905,328             | -----      | -----                  | -----     |
| ST. MARYS RIVER   | 74,309,962  | 307                    | 4,400,212 | 292,635                | 11,190,254 | -----                  | -----   | 1,266,280              | 97,160,226 | -----                  | 48        |
| LAKE MICHIGAN INCLUDING THE PORT OF CHICAGO (CHICAGO HARBOR, NORTH BRANCH, SOUTH BRANCH, SANITARY SHIP CANAL, CALUMET-SAG CHANNEL, LAKE CALUMET AND CALUMET HARBOR AND RIVER) | 90,287,772  | 2,442,701              | -----     | 6,077,129              | 4,200      | 32,034                 | -----   | 64,253,394             | -----      | 18,964,764             | 700       |
| LAKE HURON  | 113,033,071 | 40,287                 | 6,945,220 | 3,861,953              | 13,610,371 | -----                  | 200     | 21,733,806             | 86,643,085 | 785                    | 299,324   |
| ST. CLAIR RIVER, INCLUDING CHANNELS IN LAKE ST. CLAIR   | 89,010,353  | 24,050                 | 6,883,507 | 650,295                | 19,806,912 | 15,455                 | 200     | 4,627,969              | 97,001,565 | -----                  | -----     |
| DETROIT RIVER   | 92,072,833  | 945,458                | 6,907,557 | 968,186                | 19,078,336 | 57,635                 | 16,055  | 17,070,076             | 46,791,949 | -----                  | 237,557   |
| LAKE ERIE, INCLUDING UPPER NIAGARA RIVER  | 116,831,912 | 2,090,789              | 7,953,015 | 32,206,128             | 11,316,289 | 41,758                 | 73,670  | 62,069,399             | 171,362    | 42,923                 | 916,563   |
| WELLAND CANAL   | 40,869,391  | -----                  | 9,933,800 | 1,072,204              | 29,388,861 | -----                  | 115,448 | -----                  | 322,208    | -----                  | 36,888    |
| LAKE ONTARIO, INCLUDING LOWER NIAGARA RIVER   | 40,459,996  | 11,917                 | 9,933,800 | 13,061,036             | 17,131,742 | -----                  | 115,448 | 179,349                | 142,859    | -----                  | 79,785    |
| ST. LAWRENCE RIVER, BETWEEN INTERNATIONAL BOUNDARY LINE AND LAKE ONTARIO  | 27,858,591  | 15,643                 | 9,949,717 | 394,289                | 17,197,215 | 7,084                  | 112,871 | 142,859                | -----      | 48,917                 | -----     |
| NET UNITED STATES TRAFFIC ON THE GREAT LAKES  | 183,514,005 | 9,961,360              | -----     | 50,630,793             | -----      | 612,332                | -----   | 115,124,231            | -----      | 92,249,810             | 5,429,479 |

\*EXCLUDES TRAFFIC WHICH DID NOT TRAVERSE THE GREAT LAKES.

# WATERBORNE COMMERCE OF THE UNITED STATES, 1980

XI

TABLE 1 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY  
COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | SHORT TONS  | YEAR | SHORT TONS  |
|------|-------------|------|-------------|
| 1971 | 208,646,250 | 1976 | 205,832,809 |
| 1972 | 213,974,813 | 1977 | 185,906,344 |
| 1973 | 231,901,903 | 1978 | 221,374,884 |
| 1974 | 206,844,851 | 1979 | 224,984,471 |
| 1975 | 193,847,805 | 1980 | 183,514,005 |

## FREIGHT TRAFFIC, 1980

| COMMODITY                          | TOTAL       | (NET TRAFFIC IN TONS OF 2,000 POUNDS) |           |            |           | DOMESTIC  |             |           |           |
|------------------------------------|-------------|---------------------------------------|-----------|------------|-----------|-----------|-------------|-----------|-----------|
|                                    |             | IMPORTS                               |           | EXPORTS    |           | COASTWISE | LAKEWISE    | INTERNAL  | LOCAL     |
|                                    |             | CANADIAN                              | OVERSEAS  | CANADIAN   | OVERSEAS  |           |             |           |           |
| TOTAL, ALL COMMODITIES             | 183,514,005 | 13,414,205                            | 2,101,050 | 37,216,588 | 7,860,310 | 122,332   | 119,124,231 | 2,245,810 | 5,429,479 |
| 0101 COTTON, RAW                   | 1,534       |                                       |           | 1,534      |           |           |             |           |           |
| 0102 BARLEY AND RYE                | 1,096,515   | 9,803                                 |           | 478,982    | 488,323   |           | 111,407     |           |           |
| 0103 CORN                          | 6,522,513   |                                       |           | 5,111,917  | 1,406,409 |           |             |           | 4,187     |
| 0104 OATS                          | 88,930      |                                       |           | 9,740      | 55,586    |           | 3,204       |           |           |
| 0105 RICE                          | 28          |                                       | 13        | 15         |           |           |             |           |           |
| 0107 WHEAT                         | 5,515,604   |                                       |           | 2,167,455  | 1,901,665 |           | 1,446,484   |           |           |
| 0111 SOYBEANS                      | 1,818,774   |                                       |           | 1,169,447  | 649,327   |           |             |           |           |
| 0119 OILSEEDS, NEC                 | 1,367,655   |                                       |           | 199        | 1,367,456 |           |             |           |           |
| 0121 TOBACCO, LEAF                 | 28,643      | 19,742                                | 8,901     |            |           |           |             |           |           |
| 0122 HAY AND FODDER                | 95          |                                       |           |            |           |           | 95          |           |           |
| 0129 FIELD CROPS, NEC              | 3,608       | 1                                     | 110       | 7          | 31        |           | 3,459       |           |           |
| 0131 FRESH FRUITS                  | 3,170       |                                       |           | 4,327      |           |           | 843         |           |           |
| 0132 BANANAS AND PLANTAINS         | 60          |                                       |           | 60         |           |           |             |           |           |
| 0133 COFFEE                        | 8           |                                       |           |            |           |           |             |           |           |
| 0141 FRESH AND FROZEN VEGETABLES   | 78,383      |                                       | 16        | 43,389     | 16,138    |           | 18,840      |           |           |
| 0145 ANIMALS AND PRODUCTS, NEC     | 3,979       | 81                                    | 148       | 522        | 3,102     |           | 125         |           |           |
| 0191 MISCELLANEOUS FARM PRODUCTS   | 5,070       | 28                                    | 24        | 76         | 2         |           | 4,940       |           |           |
| 0841 CRUDE RUBBER AND ALLIED GUMS  | 3,048       | 35                                    |           | 3,012      | 1         |           |             |           |           |
| 0861 FOREST PRODUCTS, NEC          | 89          | 20                                    | 28        | 24         |           |           | 15          |           |           |
| 0911 FRESH FISH, EXCEPT SHELLFISH  | 29,175      | 7                                     |           |            | 199       |           | 951         | 85        | 27,933    |
| 0912 SHELLFISH, EXCEPT PREPARED    | 4           |                                       |           |            | 4         |           |             |           |           |
| 1011 IRON ORE AND CONCENTRATES     | 75,881,798  | 7,620,201                             | 147,274   | 6,317,290  |           |           | 60,374,104  |           | 1,422,929 |
| 1021 COPPER ORE AND CONCENTRATES   | 551         | 131                                   |           |            |           |           | 420         |           |           |
| 1031 ALUMINUM ORES, CONCENTRATES   | 122,104     | 11                                    | 17,866    | 834        | 1         |           | 1,491       | 101,901   |           |
| 1041 MANGANESE ORES, CONCENTRATES  | 45,095      |                                       | 21,826    |            |           |           | 1,472       | 21,797    |           |
| 1091 NONFERROUS ORES, CONCENT, NEC | 93,390      | 5,620                                 | 66,563    |            | 15,661    |           |             | 5,546     |           |
| 1121 COAL AND LIGNITE              | 38,687,558  |                                       |           | 16,783,364 |           |           | 21,900,189  | 4,005     |           |
| 1411 LIMESTONE                     | 22,190,573  | 12                                    |           | 2,498,899  |           |           | 19,691,641  |           |           |
| 1412 BUILDING STONE, UNWORKED      | 88          |                                       |           |            | 38        |           | 50          |           |           |
| 1442 SAND, GRAVEL, CRUSHED ROCK    | 4,331,876   | 1,181,263                             | 330       | 34,295     | 302       |           | 452,949     | 1,376     | 2,661,361 |
| 1451 CLAY                          | 382,968     | 310                                   | 24,062    | 182,393    | 138,979   |           | 37,224      |           |           |
| 1479 NATURAL FERTILIZER MATS, NEC  | 30          |                                       |           |            |           |           | 30          |           |           |
| 1491 SALT                          | 1,945,637   | 1,329,088                             | 2         | 616,567    |           |           |             |           |           |
| 1492 SULPHUR, DRY                  | 2           |                                       |           |            | 2         |           |             |           |           |
| 1494 GYPSUM, CRUDE AND PLASTERS    | 725,771     |                                       |           |            |           |           | 725,771     |           |           |
| 1499 NONMETALLIC MINERALS, NEC     | 654,593     | 6,736                                 | 18,176    | 6,496      | 66        |           | 565,050     | 38,283    | 19,786    |
| 1811 ORDINANCE AND ACCESSORIES     | 31          | 2                                     | 10        |            | 19        |           |             |           |           |
| 2011 MEAT, FRESH, CHILLED, FROZEN  | 39,372      | 179                                   | 17        | 13         | 39,013    |           | 150         |           |           |
| 2012 MEAT AND PRODUCTS, NEC        | 349         | 3                                     | 4         | 1          | 1         |           | 340         |           |           |
| 2014 TALLOW, ANIMAL FATS AND OILS  | 110,889     |                                       |           | 232        | 105,134   |           | 600         | 4,863     |           |
| 2015 ANIMAL BY-PRODUCTS, NEC       | 10,410      |                                       |           | 4,994      | 2,060     |           | 3,356       |           |           |
| 2021 DAIRY PRODUCTS, NEC           | 11,076      | 10                                    |           |            | 350       |           | 10,716      |           |           |
| 2022 DRIED MILK AND CREAM          | 15,457      |                                       |           | 17         | 14,890    |           | 1,350       |           |           |
| 2031 FISH AND SHELLFISH, PREPARED  | 9,613       | 80                                    | 44        | 39         |           |           | 9,450       |           |           |
| 2034 VEGETABLES AND PREP, NEC      | 87,218      | 34                                    | 1,257     | 1,093      | 305       |           | 84,529      |           |           |
| 2039 PREP FRUIT AND VEG JUICE, NEC | 27,665      | 133                                   | 31        | 6,735      | 856       |           | 19,910      |           |           |
| 2041 WHEAT FLOUR AND SEMOLINA      | 59,552      |                                       |           | 283        | 30,949    |           | 28,320      |           |           |
| 2042 ANIMAL FEEDS                  | 118,057     | 40                                    | 440       | 9,497      | 101,309   |           | 5,493       |           | 1,318     |
| 2049 GRAIN MILL PRODUCTS, NEC      | 191,327     | 194                                   | 185       | 4,145      | 130,883   |           | 55,920      |           |           |
| 2061 SUGAR                         | 57,642      |                                       | 55,117    |            |           |           | 2,525       |           |           |
| 2062 MOLASSES                      | 25          |                                       |           | 25         |           |           |             |           |           |
| 2081 ALCOHOLIC BEVERAGES           | 30,622      | 3,875                                 | 24,224    | 231        | 140       |           | 2,152       |           |           |
| 2091 VEGETABLE OILS, MARG, SHORT   | 6,625       | 7                                     | 68        | 1,045      | 5,405     |           | 100         |           |           |
| 2094 GROCERIES                     | 274         |                                       |           |            |           |           | 274         |           |           |
| 2095 ICE                           | 58          |                                       |           |            |           |           | 58          |           |           |
| 2099 MISCELLANEOUS FOOD PRODUCTS   | 37,334      | 335                                   | 1,666     | 2,439      | 12,495    |           | 20,401      |           |           |
| 2111 TOBACCO MANUFACTURES          | 36          |                                       |           | 18         | 18        |           |             |           |           |
| 2211 BASIC TEXTILE PRODUCTS        | 38,190      | 484                                   | 34,251    | 939        | 406       |           | 199         |           |           |
| 2212 TEXTILE FIBERS, NEC           | 1,994       | 492                                   | 1,121     | 134        |           |           | 247         |           |           |
| 2311 APPAREL                       | 2,021       | 34                                    | 26        | 352        | 1,689     |           |             |           |           |
| 2411 LOGS                          | 64,357      |                                       |           | 722        | 46,233    |           | 17,402      |           |           |
| 2413 FUEL WOOD, CHARCOAL, WASTES   | 727         | 18                                    | 317       | 392        |           |           |             |           |           |
| 2414 TIMBER, POSTS, POLES, PILING  | 8,091       |                                       |           | 4,446      |           |           | 3,645       |           |           |
| 2415 PULPMOOD, LOG                 | 31,118      |                                       |           |            |           |           | 31,118      |           |           |
| 2416 WOOD CHIPS, STAVES, HOLDINGS  | 3,486       | 1,661                                 |           | 1,380      |           |           | 445         |           |           |
| 2421 LUMBER                        | 72,517      | 1,277                                 | 107       | 9,330      | 3,408     |           | 53,047      | 5,348     |           |
| 2431 VENEER, PLYWOOD, WORKED WOOD  | 96,264      | 6,988                                 | 79        | 347        | 6         |           | 88,844      |           |           |
| 2491 WOOD MANUFACTURES, NEC        | 11,064      | 30                                    | 396       | 2,776      | 1,535     |           | 6,327       |           |           |
| 2511 FURNITURE AND FIXTURES        | 3,054       | 446                                   | 390       | 1,280      | 261       |           | 677         |           |           |
| 2611 PULP                          | 121,886     | 99,443                                | 4,903     | 1,224      | 897       |           | 19,019      |           |           |
| 2621 STANDARD NEWSPRINT PAPER      | 46,244      |                                       |           |            |           |           | 46,244      |           |           |
| 2631 PAPER AND PAPERBOARD          | 590,816     | 218,085                               | 34,956    | 2,440      | 6,719     |           | 325,904     | 2,712     |           |
| 2691 PULP AND PAPER PRODUCTS, NEC  | 91,749      | 43                                    | 13        | 1,255      | 327       |           | 90,111      |           |           |
| 2711 PRINTED MATTER                | 3,831       | 245                                   | 109       | 4,149      | 1,148     |           |             |           |           |
| 2810 SODIUM HYDROXIDE              | 37,367      |                                       |           |            |           |           | 34,996      | 1,200     | 1,171     |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS  | 42,320      | 17,824                                | 18        |            |           |           | 18,115      |           | 6,363     |
| 2812 DYES, PIGMENT, TANNING MATS   | 19          |                                       |           |            |           |           |             |           |           |
| 2813 ALCOHOLS                      | 4,747       |                                       |           | 100        |           |           | 4,647       |           |           |
| 2817 BENZENE AND TOLUENE           | 68,821      |                                       |           |            |           |           | 37,486      | 29,938    | 1,397     |
| 2819 BASIC CHEMICALS AND PROD, NEC | 652,794     | 269,382                               | 7,489     | 175,470    | 11,743    |           | 373,671     | 1,640     | 17,159    |
| 2821 PLASTIC MATERIALS             | 40,764      | 489                                   | 328       | 18,935     | 2,950     |           | 18,062      |           |           |

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TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY (CONTINUED)  
 FREIGHT TRAFFIC, 1986 (CONTINUED)  
 (NET TRAFFIC IN TONS OF 2,000 POUNDS)

| COMMODITY                               | TOTAL     | FOREIGN  |           |           |          | DOMESTIC  |           |          |         |
|---|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|---------|
|   |           | IMPORTS  |           | EXPORTS   |          | COASTWISE | LAKEWISE  | INTERNAL | LOCAL   |
|   |           | CANADIAN | OVERSEAS  | CANADIAN  | OVERSEAS |           |           |          |         |
| 2822 SYNTHETIC RUBBER-----              | 7,622     |          |           | 6,881     | 421      |           | 320       |          |         |
| 2823 SYNTHETIC (MAN-MADE) FIBERS-----   | 61        |          |           | 61        |          |           |           |          |         |
| 2831 DRUGS-----                         | 967       | 93       | 268       | 304       | 302      |           |           |          |         |
| 2841 SOAP-----                          | 15,518    | 114      | 200       | 12,337    | 2,650    |           | 217       |          |         |
| 2851 PAINTS-----                        | 8,632     | 4,844    | 1,665     | 1,742     | 379      |           |           |          |         |
| 2861 GUM AND WOOD CHEMICALS-----        | 2,959     |          |           | 2,959     | 20       |           |           |          |         |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 365,506   |          | 114,620   | 4,551     |          |           | 62,288    | 184,647  |         |
| 2872 POTASSIC CHEM FERTILIZERS-----     | 29,384    |          |           | 373       |          |           | 28,911    |          |         |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 700,500   | 616,893  |           | 36,179    |          |           | 33,900    | 13,528   |         |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 1,312     | 41       | 85        | 1,053     | 13       |           | 120       |          |         |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 3,056     | 187      |           | 209       |          |           | 2,660     |          |         |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 208,500   | 34,251   | 5,220     | 20,945    | 3,074    |           | 145,010   |          |         |
| 2911 GASOLINE-----                      | 1,207,540 |          |           | 20,797    | 25       | 7,884     | 1,122,432 | 28,791   | 45,481  |
| 2912 JET FUEL-----                      | 183,318   |          |           |           |          |           | 183,318   |          |         |
| 2913 KEROSENE-----                      | 8,554     |          |           |           | 34       |           | 5,499     | 3,021    |         |
| 2914 DISTILLATE FUEL OIL-----           | 1,243,458 | 14,253   |           |           |          |           | 905,726   | 23,752   | 299,727 |
| 2915 RESIDUAL FUEL OIL-----             | 3,446,001 | 937,915  |           |           |          | 68,084    | 1,588,896 | 69,176   | 781,930 |
| 2916 LUBRICATING OILS AND GREASES-----  | 172,797   | 29       | 20        | 63,889    | 245      |           | 2,363     | 34,066   | 25,021  |
| 2917 NAPHTHA, PETROLEUM SOLVENTS-----   | 247,511   |          |           |           |          |           | 180,389   | 60,353   | 6,769   |
| 2918 ASPHALT, TAR, AND BITUMENS-----    | 344,601   |          |           | 9,109     | 111      |           | 319,838   | 5,090    | 10,453  |
| 2920 COKE, PETROLEUM COKE-----          | 4,009,239 |          | 17,535    | 1,206,133 | 238,529  |           | 144,045   | 338,262  | 64,735  |
| 2921 LIQUEFIED GASES-----               | 1,612     |          |           | 1,387     | 60       |           | 165       |          |         |
| 2951 ASPHALT BUILDING MATERIALS-----    | 129       |          |           |           |          |           | 120       |          |         |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 3,081     |          | 33        | 9         | 11       |           | 320       | 2,698    |         |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 9,505     | 532      | 481       | 7,022     | 850      |           | 620       |          |         |
| 3111 LEATHER AND LEATHER PRODUCTS-----  | 3,357     | 653      | 497       | 177       | 218      |           | 1,812     |          |         |
| 3211 GLASS AND GLASS PRODUCTS-----      | 8,578     | 1,214    | 2,994     | 3,843     | 529      |           |           |          |         |
| 3241 BUILDING CEMENT-----               | 3,689,309 | 745,082  | 6,622     | 27,456    | 26       |           | 2,910,123 |          |         |
| 3291 STRUCTURAL CLAY PRODUCTS-----      | 24,497    | 1,275    | 1,428     | 1,827     | 218      |           | 12,938    | 6,811    |         |
| 3271 LIME-----                          | 10,231    |          |           | 51        |          |           | 305       | 10,180   |         |
| 3281 CUT STONE AND STONE PRODUCTS-----  | 3,659     | 881      | 2,345     | 1         | 132      |           |           |          |         |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 14,301    | 652      | 319       | 641       | 444      |           | 12,245    |          |         |
| 3311 PIG IRON-----                      | 32,613    |          |           |           |          |           | 16,684    | 15,929   |         |
| 3312 SLAG-----                          | 396,692   |          |           |           |          |           | 342,095   | 54,597   |         |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 237,245   | 3,473    | 18,402    | 29,053    | 66,741   |           | 50,053    | 67,343   |         |
| 3315 IRON, STEEL SHAPES, ETC SHEET----- | 1,370,444 | 26,341   | 1,110,005 | 977       | 8,454    |           | 50,985    | 171,823  | 1,859   |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 695,951   | 1,512    | 5,951     | 13,343    | 163,345  |           | 24,245    | 484,755  | 2,800   |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 53,351    | 1,428    | 15,504    | 1,614     | 1,322    |           | 22,772    | 10,711   |         |
| 3318 FERROALLOYS-----                   | 332,437   | 113,111  | 154,954   |           |          |           | 2,937     | 60,682   | 1,353   |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 258,501   | 7,016    | 8,017     | 3,382     | 735      |           | 25,595    | 213,756  |         |
| 3321 NONFERROUS METALS, NEC-----        | 5,969     | 725      | 3,566     | 402       | 166      |           | 1,110     |          |         |
| 3322 COPPER ALLOYS, UNWORKED-----       | 13,127    | 997      | 647       | 1,105     | 61       |           | 10,350    |          |         |
| 3323 LEAD AND ZINC, UNWORKED-----       | 40,696    | 1,035    | 37,357    | 73        | 2,231    |           |           |          |         |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 17,917    | 8,774    | 1,311     | 874       | 843      |           | 6,115     |          |         |
| 3411 FABRICATED METAL PRODUCTS-----     | 42,816    | 3,867    | 8,609     | 6,022     | 3,348    |           | 3,450     | 17,928   |         |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 118,838   | 25,066   | 29,757    | 15,758    | 30,119   |           | 14,025    | 4,113    |         |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 22,154    | 3,795    | 3,167     | 6,929     | 8,887    |           | 196       |          |         |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 84,408    | 19,659   | 6,122     | 21,919    | 9,552    |           | 27,156    |          |         |
| 3721 AIRCRAFT AND PARTS-----            | 39        |          | 2         | 25        | 12       |           |           |          |         |
| 3731 SHIPS AND BOATS-----               | 636       | 38       | 2         | 13        | 78       |           | 475       |          |         |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 12,255    | 409      | 7,212     | 1,146     | 2,028    |           | 920       |          | 500     |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 2,077     | 836      | 78        | 443       | 380      |           | 270       |          |         |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 85,700    | 921      | 983       | 1,554     | 499      |           | 82,143    |          |         |
| 4011 IRON AND STEEL SCRAP-----          | 989,855   | 17,049   | 5,942     | 2,755     | 745,496  |           | 26,654    | 146,712  | 25,247  |
| 4012 NONFERROUS METAL SCRAP-----        | 63,858    | 5,843    | 50,357    | 4,649     | 2,629    |           | 380       |          |         |
| 4022 TEXTILE WASTE, SCRAP, SWEEP-----   | 1,865     |          |           | 35        |          |           | 1,830     |          |         |
| 4024 PAPER WASTE AND SCRAP-----         | 6,925     | 215      |           | 3,533     | 81       |           | 3,096     |          |         |
| 4029 WASTE AND SCRAP, NEC-----          | 120       |          |           |           |          |           | 120       |          |         |
| 4112 COMMODITIES, NEC-----              | 32,846    | 2,800    | 3,873     | 703       | 134      |           | 25,333    |          |         |
| 9999 DEPARTMENT OF DEFENSE AND SCI----- | 163       |          |           | 49        | 114      |           |           |          |         |

\* SALT INCLUDED IN NONMETALLIC MINERALS, NEC. TO AVOID DISCLOSURE OF INDIVIDUAL COMPANY OPERATIONS.



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Section 1  
FREIGHT TRAFFIC

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1/2

## ST. PAUL, MINN., DISTRICT

## (GREAT LAKES PORTION)

3

## LAKE SUPERIOR AREA

THE HARBORS (AGATE BAY), MINN.

SECTION INCLUDED: ENTIRE HARBOR. CONTROLLING DEPTH: 28 FEET EXCEPT FOR A 26 FOOT AREA ALONG THE EAST PROJECT LINE. PROJECT DEPTH: 28 FEET IN INNER BASIN AND 30 FEET NEAR ENTRANCE. NAVIGATION SEASON: MARCH 3 TO SHIPPED ALL WINTER LONG.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS       |
|-----------|-----------|-----------|------------|
| 1971----- | 4,909,816 | 1976----- | 6,264,128  |
| 1972----- | 6,777,639 | 1977----- | 8,049,883  |
| 1973----- | 8,629,673 | 1978----- | 10,517,863 |
| 1974----- | 9,788,565 | 1979----- | 11,932,719 |
| 1975----- | 9,605,595 | 1980----- | 11,157,604 |

## FREIGHT TRAFFIC, 1980

## DOMESTIC

(SHORT TONS)

| COMMODITY                              | TOTAL      | LAKEWISE<br>SHIPMENTS | LOCAL |
|--|------------|-----------------------|-------|
| TOTAL-----                             | 11,157,604 | 11,157,598            | 14    |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 14         | 14                    | 14    |
| 1011 IRON ORE AND CONCENTRATES-----    | 11,157,590 | 11,157,590            |       |

## DULUTH-SUPERIOR HARBOR, MINN. AND WIS.

SECTION INCLUDED: SUPERIOR BAY AND ITS TRIBUTARIES, ST. LOUIS BAY AND ST. LOUIS RIVER, AND ALLOUEZ BAY. CONTROLLING DEPTH: 32 FEET IN LAKE APPROACHES, DIMINISHING TO A MINIMUM OF 20 FEET IN CERTAIN INNER CHANNELS; THERE ARE NUMEROUS 1-2 FOOT SHOALS SCATTERED IN PORTIONS OF THE DULUTH AND SUPERIOR HARBOR BASINS. PROJECT DEPTH: 32 FEET IN LAKE APPROACHES; 27 FEET IN DULUTH AND SUPERIOR HARBOR BASINS. SUPERIOR FRONT CHANNEL, AND IN DRE-CHANNEL ROUTES THROUGH NORTH AND SOUTH CHANNELS TO D. H. & T. R. R. ONE DOCK; 27 FEET IN HOWARDS BAY AND ALLOUEZ BAY; 23 FEET IN REMAINING PORTION OF SOUTH, UPPER, AND MINNESOTA CHANNELS TO HALLET DOCK NO. 61 AND 20 FEET FROM THENCE TO NORTHERLY END OF CLOUGH ISLAND. NAVIGATION SEASON: APRIL 3 TO JANUARY 11, 1979.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS       | PASSENGERS | YEAR      | TONS       | PASSENGERS |
|-----------|------------|------------|-----------|------------|------------|
| 1971----- | 37,090,852 | 135,780    | 1976----- | 32,654,931 | 136,422    |
| 1972----- | 37,895,954 | 147,029    | 1977----- | 33,419,210 | 204,314    |
| 1973----- | 48,158,190 | 142,232    | 1978----- | 45,041,364 | 231,628    |
| 1974----- | 40,344,702 | 121,020    | 1979----- | 47,725,975 | 198,630    |
| 1975----- | 33,607,024 | 130,080    | 1980----- | 41,434,568 | 233,690    |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL      | FOREIGN  |           |          |           | DOMESTIC  |            | LOCAL |
|---|------------|----------|-----------|----------|-----------|-----------|------------|-------|
|   |            | OVERSEAS |           | CANADIAN |           | LAKEWISE  |            |       |
|   |            | IMPORTS  | EXPORTS   | IMPORTS  | EXPORTS   | RECEIPTS  | SHIPMENTS  |       |
| TOTAL-----                              | 41,434,568 | 13,968   | 4,386,244 | 330,260  | 5,192,794 | 1,626,042 | 29,804,080 | 420   |
| 0102 BARLEY AND RYE-----                | 1,096,035  |          | 488,323   | 9,803    | 478,982   |           | 110,927    |       |
| 0103 CORN-----                          | 1,125,988  |          | 490,072   |          | 635,116   |           |            |       |
| 0104 OATS-----                          | 65,736     |          | 53,939    |          | 8,793     |           | 3,084      |       |
| 0107 WHEAT-----                         | 5,045,224  |          | 1,866,265 |          | 1,776,853 |           | 1,462,106  |       |
| 0111 SOYBEANS-----                      | 38,012     |          | 38,012    |          |           |           |            |       |
| 0119 OILSEEDS, NEC-----                 | 1,367,434  |          | 1,367,434 |          |           |           |            |       |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 242        |          | 242       |          |           |           |            |       |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 424        |          |           | 4        |           |           |            | 420   |
| 1011 IRON ORE AND CONCENTRATES-----     | 26,310,493 |          |           |          | 2,126,805 |           | 24,184,408 |       |
| 1121 COAL AND LIGNITE-----              | 4,395,084  |          |           |          |           | 384,703   | 4,010,381  |       |
| 1411 LIMESTONE-----                     | 652,169    |          |           |          |           | 652,169   |            |       |
| 1412 BUILDING STONE, UNWORKED-----      | 38         |          | 38        |          |           |           |            |       |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 12,795     |          |           | 370      | 12,425    |           |            |       |
| 1451 CLAY-----                          | 101,435    |          |           |          | 101,435   |           |            |       |
| 1499 NONMETALLIC MINERALS, NEC-----     | 106,472    |          |           | 106,472  |           |           |            |       |
| 2022 DRIED MILK AND CREAM-----          | 1,187      |          | 1,187     |          |           |           |            |       |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 1,433      |          | 1,433     |          |           |           |            |       |
| 2042 PREPARED ANIMAL FEEDS-----         | 36,674     |          | 36,674    |          |           |           |            |       |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 16,997     |          | 16,997    |          |           |           |            |       |
| 2211 BASIC TEXTILE PRODUCTS-----        | 13,486     |          | 13,486    |          |           |           |            |       |
| 2411 LOGS-----                          | 2,070      |          | 2,070     |          |           |           |            |       |
| 2421 LUMBER-----                        | 1,265      |          |           | 1,265    |           |           |            |       |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 1          |          |           | 1        |           |           |            |       |
| 2611 PULP-----                          | 84,109     |          |           | 84,109   |           |           |            |       |
| 2631 PAPER AND PAPERBOARD-----          | 128,115    |          |           | 128,115  |           |           |            |       |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 4,222      |          |           |          |           | 4,222     |            |       |
| 2872 POTASSIC CHEM FERTILIZERS-----     | 11,211     |          |           |          |           |           | 11,211     |       |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 33,685     |          |           |          | 33,685    |           |            |       |
| 2911 GASOLINE-----                      | 95,251     |          |           |          |           | 49,399    | 45,852     |       |
| 2914 DISTILLATE FUEL OIL-----           | 111,329    |          |           |          |           | 84,845    | 26,484     |       |
| 2915 RESIDUAL FUEL OIL-----             | 17,224     |          |           |          |           | 14,897    | 2,327      |       |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 1          |          |           | 1        |           |           |            |       |
| 3241 BUILDING CEMENT-----               | 935,367    |          |           |          | 19,980    | 515,867   |            |       |
| 3411 FABRICATED METAL PRODUCTS-----     | 1          | 1        |           |          |           |           |            |       |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

DULUTH-SUPERIOR HARBOR, MINN.; AND MIS.--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

(SHORT TONS)

| COMMODITY                              | TOTAL  | FOREIGN  |         |          |         | DOMESTIC  |           |       |
|--|--------|----------|---------|----------|---------|-----------|-----------|-------|
|  |        | OVERSEAS |         | CANADIAN |         | LAKEWATER |           | LOCAL |
|  |        | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS | RECEIPTS  | SHIPMENTS |       |
| 3911 MACHINERY, EXCEPT ELECTRICAL----- | 41     | 28       | 2       | 11       | -----   | -----     | -----     |       |
| 3411 ELECTRICAL MACH AND EQUIP-----    | 496    | 493      | 3       | -----    | -----   | -----     | -----     |       |
| 3711 MOTOR VEHICLES, PARTS, EQUIP----- | 1      | -----    | 1       | -----    | -----   | -----     | -----     |       |
| 3731 SHIPS AND BOATS-----              | 1      | -----    | 1       | -----    | -----   | -----     | -----     |       |
| 4011 IRON AND STEEL SCRAP-----         | 21,926 | -----    | 21,926  | -----    | -----   | -----     | -----     |       |
| 4112 COMMODITIES, NEC-----             | 134    | -----    | 25      | 109      | -----   | -----     | -----     |       |

ASHLAND HARBOR, WIS.

SECTION INCLUDED: ENTIRE HARBOR. CONTROLLING AND PROJECT DEPTHS: 27 FEET IN ABOUT WESTERLY HALF OF EAST BASIN AND APPROACH THERETO, 25 FEET IN REMAINDER OF EAST BASIN, AND 21 AND 28 FEET IN THE CHANNEL IN WESTERN PORTION OF THE HARBOR. CONTROLLING DEPTH: 20 FEET ALONG THE SOUTHERN PORTION OF THE 21 FOOT PROJECT DEPTH AREA. NAVIGATION SEASON: MAY 13 TO NOVEMBER 26, 1979.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | YEAR      | TONS    |
|-----------|---------|-----------|---------|
| 1971----- | 355,299 | 1976----- | 191,330 |
| 1972----- | 280,100 | 1977----- | 166,599 |
| 1973----- | 369,332 | 1978----- | 219,516 |
| 1974----- | 378,335 | 1979----- | 320,132 |
| 1975----- | 333,955 | 1980----- | 289,949 |

FREIGHT TRAFFIC, 1980

DOMESTIC

(SHORT TONS)

| COMMODITY                              | TOTAL   | LAKEWATER | LOCAL |
|--|---------|-----------|-------|
|  |         | RECEIPTS  |       |
| TOTAL-----                             | 289,949 | 289,949   | 41    |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 41      | -----     | 41    |
| 1121 COAL AND LIGNITE-----             | 239,431 | 239,431   | ----- |
| 1411 LIMESTONE-----                    | 50,477  | 50,477    | ----- |

## ST. PAUL, MINN., DISTRICT (GREAT LAKES PORTION)

5

## OTHER HARBORS AND WATERWAYS

| HARBOR OR WATERWAY         | COMMODITY                         | TONS      | PASSENGERS |
|----------------------------|-----------------------------------|-----------|------------|
| PROJECT                    |                                   |           |            |
| BAYFIELD HARBOR, WIS.      | 0011 FRESH FISH, EXCEPT SHELLFISH | 549       |            |
|                            | 1442 SAND, GRAVEL, CRUSHED ROCK   | 4,008     |            |
|                            | 2011 GASOLINE                     | 294       |            |
|                            | 2014 DISTILLATE FUEL OIL          | 392       |            |
|                            | 2018 ASPHALT, TAR, AND BITUMENS   | 142       |            |
|                            | 2021 LIQUEFIED GASES              | 79        |            |
|                            | 3721 MOTOR VEHICLES, PARTS, EQUIP | 16        |            |
|                            | 4112 COMMODITIES, NEC             | 3,002     |            |
|                            | TOTAL                             | 9,411     | 190,471    |
| BEAVER BAY HARBOR, MINN.   | 0011 FRESH FISH, EXCEPT SHELLFISH | 201       |            |
| CORNUCOPIA HARBOR, WIS.    | 0011 FRESH FISH, EXCEPT SHELLFISH | 99        |            |
| GRAND MARAIS HARBOR, MINN. | 0011 FRESH FISH, EXCEPT SHELLFISH | 450       |            |
| KNIFE RIVER HARBOR, MINN.  | 0011 FRESH FISH, EXCEPT SHELLFISH | 3         |            |
| LA POINTE HARBOR, WIS.     | 0011 FRESH FISH, EXCEPT SHELLFISH | 9         |            |
|                            | 2011 GASOLINE                     | 294       |            |
|                            | 2014 DISTILLATE FUEL OIL          | 392       |            |
|                            | 2018 ASPHALT, TAR, AND BITUMENS   | 142       |            |
|                            | 2021 LIQUEFIED GASES              | 79        |            |
|                            | 4112 COMMODITIES, NEC             | 3,002     |            |
|                            | TOTAL                             | 3,999     | 169,963    |
| LUTSEN HARBOR, MINN.       | 0011 FRESH FISH, EXCEPT SHELLFISH | 3         |            |
| PORT WING HARBOR, WIS.     | 0011 FRESH FISH, EXCEPT SHELLFISH | 92        |            |
| WARROAD HARBOR, MINN.      | 0011 FRESH FISH, EXCEPT SHELLFISH | 067       |            |
| NONPROJECT                 |                                   |           |            |
| SILVER BAY, MINN.          | 0011 FRESH FISH, EXCEPT SHELLFISH | 12        |            |
|                            | 1011 IRON ORE AND CONCENTRATES    | 4,071,444 |            |
|                            | TOTAL                             | 4,071,456 |            |
| TACONITE HARBOR, MINN.     | 1011 IRON ORE AND CONCENTRATES    | 6,796,964 |            |
|                            | 1121 COAL AND LIGNITE             | 220,029   |            |
|                            | 2019 RESIDUAL FUEL OIL            | 2,307     |            |
|                            | TOTAL                             | 7,027,956 |            |

## CHICAGO, ILL., DISTRICT

GREEN BAY HARBOR, WIS.

SECTION INCLUDED: OUTER CHANNEL, CHANNEL THROUGH THE CITY OF GREEN BAY AND UPPER RIVER CHANNEL TO CITY OF DE PERE; CONTROLLING AND PROJECT DEPTHS: 24 FEET IN OUTER CHANNEL TO GRASSY ISLAND; 24 FEET IN THE ENTRANCE CHANNEL AND RIVER CHANNEL TO A POINT 1,900 FEET UPSTREAM FROM THE C. & N. W. R. R. BRIDGE; 24 FEET IN THE TURNING BASIN AT THE MOUTH OF THE EAST RIVER; 20 FEET IN THE TURNING BASIN ABOVE THE C. & N. W. R. R. BRIDGE; 16 FEET IN THE UPPER RIVER CHANNEL AND TURNING BASIN AT THE CITY OF DE PERE.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS      |
|-----------|-----------|-----------|-----------|
| 1971----- | 2,763,287 | 1976----- | 2,348,301 |
| 1972----- | 2,823,604 | 1977----- | 2,476,718 |
| 1973----- | 2,723,596 | 1978----- | 2,457,924 |
| 1974----- | 2,531,487 | 1979----- | 2,839,326 |
| 1975----- | 2,608,177 | 1980----- | 2,299,001 |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL     | FOREIGN  |         | CANADIAN |           | DOMESTIC |       |
|---|-----------|----------|---------|----------|-----------|----------|-------|
|   |           | OVERSEAS |         | IMPORTS  | RECEIPTS  | LAKEWISE | LOCAL |
|   |           | IMPORTS  | EXPORTS |          |           |          |       |
| TOTAL-----                              | 2,299,001 | 4,567    | 49,946  | 117,498  | 8,126,702 |          | 336   |
| 0011 FRESH FISH, EXCEPT SHELLFISH-----  | 326       |          |         |          |           |          | 336   |
| 1121 COAL AND LIGNITE-----              | 1,444,893 |          |         |          | 1,444,893 |          |       |
| 1411 LIMESTONE-----                     | 238,913   |          |         |          | 238,913   |          |       |
| 1499 NONMETALLIC MINERALS, NEC-----     | 88,995    |          |         |          | 88,995    |          |       |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 21,809    |          | 21,809  |          |           |          |       |
| 2021 DAIRY PRODUCTS, NEC-----           | 110       |          | 110     |          |           |          |       |
| 2022 DRIED MILK AND CREAM-----          | 6,826     |          | 6,826   |          |           |          |       |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 4,343     |          | 4,343   |          |           |          |       |
| 2042 PREPARED ANIMAL FEEDS-----         | 127       |          | 127     |          |           |          |       |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 12,511    |          | 12,511  |          |           |          |       |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 302       |          | 302     |          |           |          |       |
| 2611 PULP-----                          | 17,867    | 4,489    |         |          | 13,362    |          |       |
| 2631 PAPER AND PAPERBOARD-----          | 2,234     |          | 2,234   |          |           |          |       |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 15,133    |          |         | 15,133   |           |          |       |
| 2911 GASOLINE-----                      | 17,409    |          |         |          |           | 17,409   |       |
| 2914 DISTILLATE FUEL OIL-----           | 55,261    |          |         |          |           | 55,261   |       |
| 2918 ASPHALT, TAR, AND BITUMENS-----    | 30,076    |          |         |          |           | 30,076   |       |
| 2920 COKE, PETROLEUM COKE-----          | 11,268    |          |         |          |           | 11,268   |       |
| 3241 BUILDING CEMENT-----               | 328,682   |          |         |          |           | 328,682  |       |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 1,788     | 82       | 1,646   |          |           |          |       |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 38        |          | 38      |          |           |          |       |

KEWAUNEE HARBOR, WIS.

SECTION INCLUDED: OUTER HARBOR, INNER BASIN AND NORTH BASIN, CONTROLLING AND PROJECT DEPTHS: 20 FEET;

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | PASSENGERS | YEAR      | TONS      | PASSENGERS |
|-----------|-----------|------------|-----------|-----------|------------|
| 1971----- | 1,258,120 | 19,137     | 1976----- | 928,760   | 22,662     |
| 1972----- | 1,205,791 | 14,745     | 1977----- | 876,895   | 58,436     |
| 1973----- | 1,384,863 | 18,380     | 1978----- | 956,015   | 44,140     |
| 1974----- | 1,281,178 | 24,824     | 1979----- | 1,802,964 | 32,639     |
| 1975----- | 1,084,288 | 27,173     | 1980----- | 1,126,754 | 39,565     |

## FREIGHT TRAFFIC, 1980

DOMESTIC

(SHORT TONS)

| COMMODITY                              | TOTAL     | LAKEWISE |           | INTERNAL | LOCAL |
|--|-----------|----------|-----------|----------|-------|
|  |           | RECEIPTS | SHIPMENTS |          |       |
| TOTAL-----                             | 1,120,754 | 553,588  | 566,464   | 700      | 2     |
| 0104 OATS-----                         | 200       | 200      |           |          |       |
| 0107 WHEAT-----                        | 200       | 200      |           |          |       |
| 0122 HAY AND FODDER-----               | 95        |          | 47        |          |       |
| 0129 FIELD CROPS, NEC-----             | 2,001     |          | 2,001     |          |       |
| 0141 FRESH AND FROZEN VEGETABLES-----  | 18,720    | 6,845    | 12,175    |          |       |
| 0161 ANIMALS AND PRODUCTS, NEC-----    | 125       |          | 125       |          |       |
| 0191 MISCELLANEOUS FARM PRODUCTS-----  | 178       |          | 125       |          |       |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 2         |          | 43        |          |       |
| 1021 COPPER ORE AND CONCENTRATES-----  | 420       |          | 420       |          |       |
| 1121 COAL AND LIGNITE-----             | 2,738     | 1,968    | 770       |          |       |
| 1412 BUILDING STONE, UNWORKED-----     | 90        |          | 90        |          |       |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----   | 2,248     |          | 2,248     |          |       |
| 1451 CLAY-----                         | 22,777    | 9,980    | 16,797    |          |       |
| 1479 NATURAL FERTILIZER MATS, NEC----- | 30        | 15       | 15        |          |       |
| 1499 NONMETALLIC MINERALS, NEC-----    | 77,725    | 76,970   | 1,155     |          |       |
| 2011 MEAT, FRESH, CHILLED, FROZEN----- | 150       |          | 150       |          |       |
| 2012 MEAT AND PRODUCTS, NEC-----       | 340       |          | 340       |          |       |
| 2014 TALLOW, ANIMAL FATS AND OILS----- | 660       |          | 660       |          |       |

## CHICAGO, ILL., DISTRICT

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KENAUNEE HARBOR, WIS.--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

| COMMODITY                          | TOTAL   | LAKEWIDE |           | INTERNAL  | LOCAL |
|------------------------------------|---------|----------|-----------|-----------|-------|
|                                    |         | RECEIPTS | SHIPMENTS | SHIPMENTS |       |
| 2015 ANIMAL BY-PRODUCTS, NEC       | 2,954   | 1,731    | 1,223     |           |       |
| 2021 DAIRY PRODUCTS, NEC           | 10,716  | 1,697    | 9,619     |           |       |
| 2022 DRIED MILK AND CREAM          | 720     | 90       | 630       |           |       |
| 2031 FISH AND SHELLFISH, PREPARED  | 4,320   |          | 4,320     |           |       |
| 2034 VEGETABLES AND PREP, NEC      | 60,009  | 13,300   | 46,685    |           |       |
| 2039 PREP FRUIT AND VEG JUICE, NEC | 13,925  | 2,483    | 11,120    |           |       |
| 2041 WHEAT FLOUR AND SEMOLINA      | 20,145  | 2,050    | 29,295    |           |       |
| 2042 PREPARED ANIMAL FEEDS         | 2,553   | 230      | 2,323     |           |       |
| 2049 GRAIN MILL PRODUCTS, NEC      | 9,515   | 2,205    | 7,310     |           |       |
| 2061 SUGAR                         | 2,525   | 195      | 2,330     |           |       |
| 2061 ALCOHOLIC BEVERAGES           | 645     | 465      | 180       |           |       |
| 2099 MISCELLANEOUS FOOD PRODUCTS   | 19,713  | 5,139    | 10,574    |           |       |
| 2211 BASIC TEXTILE PRODUCTS        | 199     |          | 199       |           |       |
| 2212 TEXTILE FIBERS, NEC           | 247     |          | 247       |           |       |
| 2414 TIMBER, POSTS, POLES, PILING  | 1,105   | 45       | 1,060     |           |       |
| 2415 PULPMOOD, LOG                 | 31,114  | 10,526   | 12,598    |           |       |
| 2416 WOOD CHIPS, STAVES, HOLDINGS  | 420     | 195      | 225       |           |       |
| 2421 LUMBER                        | 49,432  | 11,033   | 37,599    |           |       |
| 2431 VENEER, PLYWOOD, WORKED WOOD  | 73,965  | 10,003   | 63,002    |           |       |
| 2491 WOOD MANUFACTURES, NEC        | 9,062   | 910      | 4,552     |           |       |
| 2511 FURNITURE AND FIXTURES        | 300     | 207      | 281       |           |       |
| 2611 PULP                          | 1,410   | 400      | 820       |           |       |
| 2611 STANDARD NEWSPRINT PAPER      | 36,504  | 10,904   | 25,600    |           |       |
| 2611 PAPER AND PAPERBOARD          | 277,904 | 144,737  | 133,167   |           |       |
| 2691 PULP AND PAPER PRODUCTS, NEC  | 19,004  | 2,160    | 17,000    |           |       |
| 2810 SODIUM HYDROXIDE              | 10,544  | 870      | 9,674     |           |       |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS  | 00      | 00       |           |           |       |
| 2819 BASIC CHEMICALS AND PROD, NEC | 240     | 240      |           |           |       |
| 2821 PLASTIC MATERIALS             | 1,200   | 755      | 525       |           |       |
| 2822 SYNTHETIC RUBBER              | 00      | 00       |           |           |       |
| 2871 NITROGENOUS CHEM FERTILIZERS  | 1,000   | 1,700    | 100       |           |       |
| 2872 POTASSIC CHEM FERTILIZERS     | 6,400   | 600      | 5,800     |           |       |
| 2873 PHOSPHATIC CHEM FERTILIZERS   | 29,400  | 5,700    | 19,700    |           |       |
| 2879 FERTILIZER AND MATERIALS, NEC | 2,305   | 1,645    | 660       |           |       |
| 2891 MISCELLANEOUS CHEMICAL PROD   | 90,551  | 76,503   | 13,948    |           |       |
| 2910 ASPHALT, TAR, AND BITUMENS    | 300     | 300      |           |           |       |
| 2991 ASPHALT BUILDING MATERIALS    | 120     | 120      |           |           |       |
| 2991 PETROLEUM AND COAL PROD, NEC  | 320     | 320      |           |           |       |
| 3011 RUBBER AND MISC PLASTIC PROD  | 500     | 375      | 125       |           |       |
| 3111 LEATHER AND LEATHER PRODUCTS  | 630     | 30       | 600       |           |       |
| 3241 BUILDING CEMENT               | 6,650   | 5,100    | 1,550     |           |       |
| 3291 STRUCTURAL CLAY PRODUCTS      | 9,950   | 3,010    | 6,140     |           |       |
| 3291 CUT STONE AND STONE PRODUCTS  | 250     | 140      | 110       |           |       |
| 3291 MISC NONMETALLIC MINERAL PROD | 9,140   | 150      | 9,010     |           |       |
| 3311 PIG IRON                      | 1,460   | 1,100    | 360       |           |       |
| 3312 SLAG                          | 00      |          | 00        |           |       |
| 3312 IRON AND STEEL PRIMARY FORMS  | 24,110  | 17,970   | 6,540     |           |       |
| 3315 IRON, STEEL SHAPES, EXC SHEET | 33,185  | 29,155   | 8,030     |           |       |
| 3316 IRON AND STEEL PLATES, SHEETS | 120     | 120      |           |           |       |
| 3317 IRON AND STEEL PIPE AND TUBE  | 13,580  | 13,580   |           |           |       |
| 3319 IRON AND STEEL PRODUCTS, NEC  | 7,405   | 7,045    | 440       |           |       |
| 3321 NONFERROUS METALS, NEC        | 1,005   |          | 1,005     |           |       |
| 3322 COPPER ALLOYS, UNWORKED       | 840     | 360      | 480       |           |       |
| 3324 ALUMINUM AND ALLOYS, UNWORKED | 6,005   | 1,310    | 4,695     |           |       |
| 3411 FABRICATED METAL PRODUCTS     | 2,059   | 1,305    | 854       | 700       |       |
| 3511 MACHINERY, EXCEPT ELECTRICAL  | 766     | 686      | 80        |           |       |
| 3611 ELECTRICAL MACH AND EQUIP     | 146     | 76       | 70        |           |       |
| 3711 MOTOR VEHICLES, PARTS, EQUIP  | 9,171   | 5,644    | 3,527     |           |       |
| 3791 MISC TRANSPORTATION EQUIPMENT | 850     | 690      | 160       |           |       |
| 3911 MISC MANUFACTURED PRODUCTS    | 70,369  | 55,050   | 15,311    |           |       |
| 4011 IRON AND STEEL SCRAP          | 165     | 135      | 30        |           |       |
| 4012 NONFERROUS METAL SCRAP        | 330     | 330      |           |           |       |
| 4022 TEXTILE WASTE, SCRAP, SWEEP   | 1,770   | 785      | 985       |           |       |
| 4024 PAPER WASTE AND SCRAP         | 1,865   | 1,215    | 650       |           |       |
| 4029 WASTE AND SCRAP, NEC          | 120     | 120      |           |           |       |

NAVITONOC HARBOR, WIS.

SECTION INCLUDED: OUTER HARBOR AND LOWER 2 MILES OF RIVER; CONTROLLING AND PROJECT DEPTHS: 21 FEET IN THE LAKE APPROACH CHANNEL, THE OUTER HARBOR, AND IN THE RIVER CHANNEL TO THE THIRD RAILWAY BRIDGE;

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS      | PASSENGERS | YEAR | TONS    | PASSENGERS |
|------|-----------|------------|------|---------|------------|
| 1971 | 1,932,495 | 105,734    | 1976 | 744,428 | 77,930     |
| 1972 | 1,818,313 | 105,208    | 1977 | 739,003 | 68,673     |
| 1973 | 1,292,056 | 92,241     | 1978 | 698,517 | 34,320     |
| 1974 | 869,439   | 88,922     | 1979 | 740,356 | 65,109     |
| 1975 | 653,503   | 63,519     | 1980 | 744,427 | 69,995     |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

MANITOWOC HARBOR, WIS.--CONTINUED

FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL   | FOREIGN OVERSEAS |         | DOMESTIC LAKEWISE |           |
|---|---------|------------------|---------|-------------------|-----------|
|   |         | IMPORTS          | EXPORTS | RECEIPTS          | SHIPMENTS |
| TOTAL-----                              | 744,427 | 62               | 2,709   | 475,489           | 266,167   |
| 0100 FIELD CROPS, NEC-----              | 1,458   |                  |         | 40                | 1,418     |
| 0131 FRESH FRUITS AND TREE NUTS-----    | 80      |                  |         | 80                |           |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 120     |                  |         |                   | 120       |
| 0191 MISCELLANEOUS FARM PRODUCTS-----   | 4,770   |                  |         | 547               | 4,223     |
| 0801 FOREST PRODUCTS, NEC-----          | 15      |                  |         |                   | 15        |
| 1101 COAL AND LIGNITE-----              | 56,000  |                  |         | 55,036            | 970       |
| 1402 SAND, GRAVEL, CRUSHED ROCK-----    | 8,500   |                  |         | 85                | 8,435     |
| 1491 CLAY-----                          | 14,447  |                  |         | 1,460             | 12,987    |
| 1499 NONMETALLIC MINERALS, NEC-----     | 37,108  |                  |         | 36,208            | 900       |
| 2013 ANIMAL BY-PRODUCTS, NEC-----       | 400     |                  |         | 200               | 200       |
| 2022 DRIED MILK AND CREAM-----          | 630     |                  |         |                   | 630       |
| 2031 FISH AND SHELLFISH, PREPARED-----  | 9,130   |                  |         |                   | 9,130     |
| 2034 VEGETABLES AND PREP, NEC-----      | 24,464  |                  |         | 5,285             | 19,179    |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 6,385   |                  |         | 1,140             | 5,245     |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 175     |                  |         |                   | 175       |
| 2042 PREPARED ANIMAL FEEDS-----         | 400     |                  |         | 400               |           |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 22,220  |                  |         | 70                | 22,150    |
| 2081 ALCOHOLIC BEVERAGES-----           | 1,507   |                  |         |                   | 1,507     |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 100     |                  |         | 100               |           |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 4,120   |                  |         | 1,450             | 2,670     |
| 2414 TIMBER, POSTS, POLES, PILING-----  | 2,210   |                  |         | 40                | 2,170     |
| 2416 WOOD CHIPS, STAVES, HOLDINGS-----  | 25      |                  |         |                   | 25        |
| 2421 LUMBER-----                        | 3,115   |                  |         | 685               | 2,430     |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 14,879  |                  |         | 750               | 14,129    |
| 2491 WOOD MANUFACTURES, NEC-----        | 1,265   |                  |         | 250               | 1,015     |
| 2511 FURNITURE AND FIXTURES-----        | 15      |                  |         |                   | 15        |
| 2611 PULP-----                          | 6,960   |                  |         | 1,170             | 5,790     |
| 2621 STANDARD NEWSPRINT PAPER-----      | 500     |                  |         | 130               | 370       |
| 2631 PAPER AND PAPERBOARD-----          | 46,544  |                  |         | 9,451             | 37,093    |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 26,290  |                  |         | 24,000            | 2,290     |
| 2810 SODIUM HYDROXIDE-----              | 24,450  |                  |         |                   | 24,450    |
| 2821 PLASTIC MATERIALS-----             | 16,782  |                  |         | 1,791             | 14,991    |
| 2822 SYNTHETIC RUBBER-----              | 240     |                  |         |                   | 240       |
| 2841 SOAP-----                          | 217     |                  |         |                   | 217       |
| 2872 POTASSIC CHEM FERTILIZERS-----     | 11,300  |                  |         |                   | 11,300    |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 8,500   |                  |         | 5,900             | 2,600     |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 120     |                  |         |                   | 120       |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 315     |                  |         | 100               | 215       |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 46,955  |                  |         | 21,254            | 25,701    |
| 2910 ASPHALT, TAR, AND PITCHES-----     | 495     |                  |         | 210               | 285       |
| 3241 BUILDING CEMENT-----               | 265,341 |                  |         | 265,341           |           |
| 3291 STRUCTURAL CLAY PRODUCTS-----      | 2,980   |                  |         | 1,240             | 1,740     |
| 3291 CUT STONE AND STONE PRODUCTS-----  | 55      |                  |         |                   | 55        |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 2,985   |                  |         | 235               | 2,750     |
| 3311 PIG IRON-----                      | 750     |                  |         | 630               | 120       |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 17,890  |                  |         | 13,210            | 4,680     |
| 3319 IRON, STEEL SHAPES, EXC SHEET----- | 12,900  |                  |         | 7,410             | 5,490     |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 410     |                  |         | 310               | 100       |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 8,342   |                  |         | 8,342             |           |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 910     |                  |         | 910               |           |
| 3321 NONFERROUS METALS, NEC-----        | 105     |                  |         |                   | 90        |
| 3322 COPPER ALLOYS, UNWORKED-----       | 9,510   |                  |         | 2,520             | 6,990     |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 110     |                  |         |                   | 110       |
| 3411 FABRICATED METAL PRODUCTS-----     | 500     |                  |         |                   | 500       |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 13,575  |                  | 2,673   | 2,540             | 8,362     |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 50      |                  |         | 50                |           |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 221     |                  | 36      | 135               | 50        |
| 3731 SHIPS AND BOATS-----               | 295     |                  |         | 200               | 95        |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 70      |                  |         |                   | 70        |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 270     |                  |         |                   | 270       |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 3,987   |                  |         | 1,658             | 2,329     |
| 4011 IRON AND STEEL SCRAP-----          | 2,615   |                  |         | 1,635             | 980       |
| 4022 TEXTILE WASTE, SCRAP, SHEEP-----   | 60      |                  |         |                   | 60        |
| 4024 PAPER WASTE AND SCRAP-----         | 1,231   |                  |         | 1,196             | 35        |
| 4112 COMMODITIES, NEC-----              | 62      | 62               |         |                   |           |

PORT WASHINGTON HARBOR, WIS.

SECTION INCLUDED: OUTER HARBOR AND INTERIOR BASINS. CONTROLLING AND PROJECT DEPTHS: 21 FEET IN THE ENTRANCE CHANNEL AND OUTER TURNING BASIN; 18 FEET IN INNER BASINS.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | YEAR      | TONS      |
|-----------|---------|-----------|-----------|
| 1971----- | 903,773 | 1976----- | 1,066,083 |
| 1972----- | 717,312 | 1977----- | 688,887   |
| 1973----- | 869,734 | 1978----- | 877,701   |
| 1974----- | 676,362 | 1979----- | 788,665   |
| 1975----- | 876,913 | 1980----- | 873,574   |

## CHICAGO, ILL., DISTRICT

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PORT WASHINGTON HARBOR, WIS.--CONTINUED

FREIGHT TRAFFIC, 1980

DOMESTIC

(SHORT TONS)

| COMMODITY                              | TOTAL   | LANESIDE |           | LOCAL |
|--|---------|----------|-----------|-------|
|  |         | RECEIPTS | SHIPMENTS |       |
| TOTAL-----                             | 873,874 | 873,858  | 1,186     | 36    |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 36      | -----    | -----     | 36    |
| 1121 COAL AND LIGNITE-----             | 779,619 | 779,619  | -----     | ----- |
| 2911 GASOLINE-----                     | 89,994  | 84,774   | 1,186     | ----- |
| 2914 DISTILLATE FUEL OIL-----          | 7,969   | 7,969    | -----     | ----- |

MILWAUKEE HARBOR, WIS.

SECTION INCLUDED: LAKE APPROACH CHANNEL, OUTER HARBOR, MILWAUKEE RIVER TO BUFFALO STREET, LOWER 2 MILES OF MEMPHOSE RIVER, LOWER 2 MILES OF KINNICKINNICK RIVER AND SOUTH MEMPHOSE AND BURMAN CANALS, CONTROLLING AND PROJECT DEPTHS: 30 FEET IN LAKE APPROACH CHANNEL, 20 FEET IN THE ENTRANCE CHANNEL AND THE SOUTH OUTER HARBOR, 21 FEET IN THE NORTH OUTER HARBOR, 27 FEET IN THE KINNICKINNICK RIVER TO THE CHICAGO AND NORTH WESTERN RAILWAY BRIDGE AT MILE 1.0, THENCE 21 FEET TO SOUTH KINNICKINNICK AVENUE BRIDGE; 27 FEET IN MILWAUKEE RIVER TO THE CHICAGO AND NORTH WESTERN RAILWAY BRIDGE AT MILE 0.21, THENCE 21 FEET TO EAST BUFFALO STREET BRIDGE; 21 FEET IN MEMPHOSE RIVER AND SOUTH MEMPHOSE AND BURMAN CANALS.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | PASSENGERS | YEAR      | TONS      | PASSENGERS |
|-----------|-----------|------------|-----------|-----------|------------|
| 1971----- | 5,660,299 | 166,562    | 1976----- | 3,946,787 | 115,442    |
| 1972----- | 5,373,630 | 134,899    | 1977----- | 3,946,382 | 116,455    |
| 1973----- | 5,639,324 | 144,142    | 1978----- | 4,497,949 | 113,381    |
| 1974----- | 4,263,862 | 192,931    | 1979----- | 4,679,888 | 101,686    |
| 1975----- | 3,908,683 | 106,260    | 1980----- | 4,679,566 | 97,681     |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL     | FOREIGN  |         |          |           | DOMESTIC  |           |           | LOCAL |
|---|-----------|----------|---------|----------|-----------|-----------|-----------|-----------|-------|
|   |           | OVERSEAS |         | CANADIAN |           | LANESIDE  |           | INTERNAL  |       |
|   |           | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS   | RECEIPTS  | SHIPMENTS | SHIPMENTS |       |
| TOTAL-----                              | 4,079,906 | 69,900   | 905,189 | 228,525  | 1,107,598 | 2,124,498 | 48,342    | 2,945     | 929   |
| 0102 BARLEY AND RYE-----                | 480       | -----    | -----   | -----    | -----     | -----     | 480       | -----     | ----- |
| 0103 CORN-----                          | 1,289,000 | -----    | 181,294 | -----    | 1,103,806 | -----     | -----     | -----     | ----- |
| 0104 OATS-----                          | 1,984     | -----    | 1,401   | -----    | 583       | -----     | -----     | -----     | ----- |
| 0121 TOBACCO, LEAF-----                 | 1,912     | 1,593    | -----   | 319      | -----     | -----     | -----     | -----     | ----- |
| 0129 FIELD CROPS, NEC-----              | 3         | -----    | 5       | -----    | -----     | -----     | -----     | -----     | ----- |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 330       | -----    | 50      | -----    | 280       | -----     | -----     | -----     | ----- |
| 0161 ANIMALS AND PRODUCTS, NEC-----     | 116       | -----    | 85      | -----    | 31        | -----     | -----     | -----     | ----- |
| 0191 MISCELLANEOUS FARM PRODUCTS-----   | 2         | -----    | 2       | -----    | -----     | -----     | -----     | -----     | ----- |
| 0861 FOREST PRODUCTS, NEC-----          | 1         | -----    | 1       | -----    | -----     | -----     | -----     | -----     | ----- |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 36        | -----    | 20      | -----    | -----     | -----     | -----     | -----     | 529   |
| 1121 COAL AND LIGNITE-----              | 1,029,692 | -----    | -----   | -----    | -----     | 1,024,276 | 5,416     | -----     | ----- |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 66,295    | -----    | -----   | -----    | -----     | 66,295    | -----     | -----     | ----- |
| 1499 NONMETALLIC MINERALS, NEC-----     | 280,915   | 330      | -----   | 165,629  | -----     | 115,286   | -----     | -----     | ----- |
| 2011 MEAT, FRESH, CHILLED, FROZEN-----  | 4,942     | -----    | 4,937   | -----    | 5         | -----     | -----     | -----     | ----- |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 11,525    | -----    | 11,332  | -----    | 193       | -----     | -----     | -----     | ----- |
| 2015 ANIMAL BY-PRODUCTS, NEC-----       | 758       | -----    | 637     | -----    | 121       | -----     | -----     | -----     | ----- |
| 2021 DAIRY PRODUCTS, NEC-----           | 240       | -----    | 240     | -----    | -----     | -----     | -----     | -----     | ----- |
| 2022 DRIED MILK AND CREAM-----          | 6,068     | -----    | 6,068   | -----    | -----     | -----     | -----     | -----     | ----- |
| 2031 FISH AND SHELLFISH, PREPARED-----  | 21        | 21       | -----   | -----    | -----     | -----     | -----     | -----     | ----- |
| 2034 VEGETABLES AND PREP, NEC-----      | 1,137     | 941      | 191     | -----    | 49        | -----     | -----     | -----     | ----- |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 208       | -----    | 208     | -----    | -----     | -----     | -----     | -----     | ----- |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 7,572     | -----    | 7,572   | -----    | -----     | -----     | -----     | -----     | ----- |
| 2042 PREPARED ANIMAL FEEDS-----         | 5,474     | 369      | 2,311   | -----    | 524       | -----     | 2,270     | -----     | ----- |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 82,876    | -----    | 98,691  | -----    | -----     | -----     | 24,186    | -----     | ----- |
| 2081 ALCOHOLIC BEVERAGES-----           | 3,856     | 3,841    | -----   | 15       | -----     | -----     | -----     | -----     | ----- |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 3,617     | -----    | 3,617   | -----    | -----     | -----     | -----     | -----     | ----- |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 9,493     | 176      | 8,475   | -----    | 842       | -----     | -----     | -----     | ----- |
| 2211 BASIC TEXTILE PRODUCTS-----        | 14,291    | 14,103   | 167     | -----    | 21        | -----     | -----     | -----     | ----- |
| 2311 APPAREL-----                       | 1,372     | 1        | 1,364   | -----    | 7         | -----     | -----     | -----     | ----- |
| 2411 LOGS-----                          | 18,070    | -----    | 18,070  | -----    | -----     | -----     | -----     | -----     | ----- |
| 2413 FUEL WOOD, CHARCOAL, WASTES-----   | 266       | 266      | -----   | 18       | -----     | -----     | -----     | -----     | ----- |
| 2421 LUMBER-----                        | 774       | -----    | 276     | -----    | -----     | -----     | 308       | -----     | ----- |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 6         | -----    | 6       | -----    | -----     | -----     | -----     | -----     | ----- |
| 2491 WOOD MANUFACTURES, NEC-----        | 236       | -----    | 235     | -----    | 1         | -----     | -----     | -----     | ----- |
| 2911 FURNITURE AND FIXTURES-----        | 86        | 86       | 91      | -----    | -----     | -----     | -----     | -----     | ----- |
| 2611 PULP-----                          | 7,318     | 3        | 686     | -----    | -----     | 6,649     | -----     | -----     | ----- |
| 2621 STANDARD NEWSPRINT PAPER-----      | 9,238     | -----    | -----   | -----    | -----     | 9,238     | -----     | -----     | ----- |
| 2631 PAPER AND PAPERBOARD-----          | 36,952    | 29,963   | 3,617   | 1,994    | 11        | 770       | 687       | -----     | ----- |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 4,038     | -----    | 93      | -----    | 31        | 3,914     | -----     | -----     | ----- |
| 2711 PRINTED MATTER-----                | 79        | -----    | 69      | -----    | 10        | -----     | -----     | -----     | ----- |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 275       | 76       | 177     | 26       | -----     | -----     | -----     | -----     | ----- |
| 2821 PLASTIC MATERIALS-----             | 926       | -----    | 984     | -----    | 22        | -----     | -----     | -----     | ----- |
| 2831 DRUGS-----                         | 42        | -----    | 42      | -----    | -----     | -----     | -----     | -----     | ----- |
| 2841 SOAP-----                          | 265       | 115      | 146     | -----    | 4         | -----     | -----     | -----     | ----- |
| 2851 PAINTS-----                        | 389       | 389      | 26      | -----    | 54        | -----     | -----     | -----     | ----- |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 17,189    | -----    | -----   | -----    | -----     | 17,189    | -----     | -----     | ----- |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 87        | 85       | 2       | -----    | -----     | -----     | -----     | -----     | ----- |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 11,141    | 3,476    | 44      | 117      | -----     | 7,984     | -----     | -----     | ----- |
| 2911 GASOLINE-----                      | 262,683   | -----    | -----   | -----    | -----     | 262,683   | -----     | -----     | ----- |
| 2914 DISTILLATE FUEL OIL-----           | 118,217   | -----    | -----   | -----    | -----     | 118,217   | -----     | -----     | ----- |
| 2919 RESIDUAL FUEL OIL-----             | 24,889    | -----    | -----   | -----    | -----     | 24,889    | -----     | -----     | ----- |



## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

MILWAUKEE HARBOR, WIS.--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

(SHORT TONS)

| COMMODITY                              | TOTAL   | FOREIGN  |         |          |         | DOMESTIC |           |           |       |
|--|---------|----------|---------|----------|---------|----------|-----------|-----------|-------|
|  |         | OVERSEAS |         | CANADIAN |         | LAKEWISE |           | INTERNAL  | LOCAL |
|  |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS | RECEIPTS | SHIPMENTS | SHIPMENTS |       |
| 2916 LUBRICATING OILS AND GREASES----  | 86      | -----    | 86      | -----    | -----   | -----    | -----     | -----     | ----- |
| 3921 RUBBER AND MISC PLASTIC PROD----  | 332     | 47       | 111     | -----    | 52      | 128      | -----     | -----     | ----- |
| 3111 LEATHER AND LEATHER PRODUCTS----  | 1,092   | 434      | 268     | 22       | 96      | 1,102    | -----     | -----     | ----- |
| 3211 GLASS AND GLASS PRODUCTS----      | 1       | 1        | -----   | -----    | -----   | -----    | -----     | -----     | ----- |
| 3241 BUILDING CEMENT-----              | 472,677 | -----    | -----   | 47,846   | -----   | 429,831  | -----     | -----     | ----- |
| 3291 STRUCTURAL CLAY PRODUCTS----      | 21      | 21       | -----   | -----    | -----   | -----    | -----     | -----     | ----- |
| 3281 CUT STONE AND STONE PRODUCTS----  | 673     | 541      | 132     | -----    | -----   | -----    | -----     | -----     | ----- |
| 3291 MISC NONMETALLIC MINERAL PROD---- | 22      | 5        | 17      | -----    | -----   | -----    | -----     | -----     | ----- |
| 3312 SLAG-----                         | 11,100  | -----    | -----   | -----    | -----   | 11,100   | -----     | -----     | ----- |
| 3314 IRON AND STEEL PRIMARY FORMS----  | 9,437   | 1,368    | -----   | 16       | -----   | 8,053    | -----     | -----     | ----- |
| 3315 IRON, STEEL SHAPES, EXC SHEET---- | 4,846   | 2,413    | 133     | 1,920    | -----   | -----    | -----     | -----     | ----- |
| 3316 IRON AND STEEL PLATES, SHEETS---- | 1,299   | -----    | 897     | -----    | -----   | 398      | -----     | -----     | ----- |
| 3317 IRON AND STEEL PIPE AND TUBE----  | 310     | 206      | 104     | -----    | -----   | -----    | -----     | -----     | ----- |
| 3318 FERROALLOYS-----                  | 13,685  | 4,430    | -----   | 11,099   | -----   | -----    | -----     | -----     | ----- |
| 3319 IRON AND STEEL PRODUCTS, NEC----  | 210     | 91       | 149     | -----    | 18      | -----    | -----     | -----     | ----- |
| 3321 NONFERROUS METALS, NEC-----       | 18      | 18       | -----   | -----    | -----   | -----    | -----     | -----     | ----- |
| 3322 COPPER ALLOYS, UNWORKED-----      | 147     | 147      | -----   | -----    | -----   | -----    | -----     | -----     | ----- |
| 3324 ALUMINUM AND ALLOYS, UNWORKED---- | 179     | 179      | -----   | -----    | -----   | -----    | -----     | -----     | ----- |
| 3411 FABRICATED METAL PRODUCTS----     | 915     | 250      | 377     | -----    | -----   | -----    | -----     | -----     | ----- |
| 3511 MACHINERY, EXCEPT ELECTRICAL----  | 21,026  | 3,324    | 11,946  | 787      | 103     | -----    | 138       | -----     | ----- |
| 3611 ELECTRICAL MACH AND EQUIP-----    | 4,669   | 108      | 4,043   | 40       | 478     | -----    | 1,368     | 2,949     | ----- |
| 3711 MOTOR VEHICLES, PARTS, EQUIP----  | 20,601  | 271      | 2,393   | -----    | 24      | 17,713   | -----     | -----     | ----- |
| 3721 AIRCRAFT AND PARTS-----           | 10      | 2        | 8       | -----    | -----   | -----    | -----     | -----     | ----- |
| 3731 SHIPS AND BOATS-----              | 48      | 1        | 47      | -----    | -----   | -----    | -----     | -----     | ----- |
| 3791 MISC TRANSPORTATION EQUIPMENT---- | 13      | -----    | 13      | -----    | -----   | -----    | -----     | -----     | ----- |
| 3811 INSTR, TIME, PHOTO, OPT GOODS---- | 133     | 2        | 104     | -----    | 27      | -----    | -----     | -----     | ----- |
| 3911 MISC MANUFACTURED PRODUCTS----    | 7,988   | 297      | 25      | -----    | -----   | 3,025    | 3,881     | -----     | ----- |
| 4011 IRON AND STEEL SCRAP-----         | 175,656 | -----    | 171,435 | -----    | 2,796   | 1,425    | -----     | -----     | ----- |
| 4012 NONFERROUS METAL SCRAP-----       | 235     | -----    | 235     | -----    | -----   | -----    | -----     | -----     | ----- |
| 4112 COMMODITIES, NEC-----             | 206     | 146      | 60      | -----    | -----   | -----    | -----     | -----     | ----- |
| 9999 DEPARTMENT OF DEFENSE AND SCI---- | 42      | -----    | 42      | -----    | -----   | -----    | -----     | -----     | ----- |

WAUKEGAN HARBOR, ILL.

SECTION INCLUDED: ARTIFICIAL HARBOR BASIN OF ABOUT 13.5 ACRES AND ENTRANCE CHANNEL FROM LAKE MICHIGAN APPROXIMATELY 2,000 FEET IN LENGTH. CONTROLLING AND PROJECT DEPTHS: 22 FEET IN ENTRANCE CHANNEL; 18 FEET BETWEEN PIERS AND INNER BASIN; 8 FEET IN ANCHORAGE AREA OF APPROXIMATELY 6 ACRES.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | YEAR      | TONS    |
|-----------|---------|-----------|---------|
| 1971----- | 588,866 | 1976----- | 451,497 |
| 1972----- | 436,710 | 1977----- | 477,157 |
| 1973----- | 590,436 | 1978----- | 470,733 |
| 1974----- | 474,335 | 1979----- | 544,281 |
| 1975----- | 341,781 | 1980----- | 286,363 |

FREIGHT TRAFFIC, 1980

DOMESTIC

(SHORT TONS)

| COMMODITY                             | TOTAL   | LAKEWISE | LOCAL |
|---------------------------------------|---------|----------|-------|
|                                       |         | RECEIPTS |       |
| TOTAL-----                            | 286,363 | 286,343  | 20    |
| 0011 FRESH FISH, EXCEPT SHELLFISH---- | 20      | -----    | 20    |
| 1494 GYPSUM, CRUDE AND PLASTERS----   | 124,619 | 124,619  | ----- |
| 3241 BUILDING CEMENT-----             | 181,724 | 181,724  | ----- |

CHICAGO HARBOR, ILL. (INCLUDED IN PORT OF CHICAGO)

SECTION INCLUDED: PROTECTED AREA ON LAKEFRONT FROM CAK STREET TO ROOSEVELT ROAD AND CHICAGO RIVER ENTRANCE TO RUSH STREET. CONTROLLING AND PROJECT DEPTHS: 29 FEET IN THE LAKE APPROACH CHANNEL, 28 FEET IN THE CHANNEL AND MANEUVER AREA TO THE EAST END OF NAVY PIER EXTENDED, THEN 21 FEET IN THE APPROACH TO THE LOCK AND IN THE CHICAGO RIVER ENTRANCE TO RUSH STREET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | PASSENGERS | YEAR      | TONS    | PASSENGERS |
|-----------|---------|------------|-----------|---------|------------|
| 1971----- | 656,455 | 404,220    | 1976----- | 338,497 | 318,814    |
| 1972----- | 548,305 | 440,600    | 1977----- | 931,993 | 381,962    |
| 1973----- | 483,945 | 366,160    | 1978----- | 932,738 | 328,134    |
| 1974----- | 317,398 | 359,331    | 1979----- | 956,347 | 375,754    |
| 1975----- | 322,899 | 346,822    | 1980----- | 932,319 | 309,744    |

## CHICAGO, ILL., DISTRICT

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CHICAGO HARBOR, ILL. (INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL   | FOREIGN CANADIAN |         | DOMESTIC |       |
|---|---------|------------------|---------|----------|-------|
|   |         | IMPORTS          | EXPORTS | RECEIPTS | LOCAL |
| TOTAL-----                              | 532,315 | 275,488          | 184,795 | 147,184  | 4,968 |
| 1011 IRON ORE AND CONCENTRATES-----     | 2,575   | 2,575            |         |          |       |
| 1499 NONMETALLIC MINERALS, NEC-----     | 121,205 | 121,205          |         |          |       |
| 2001 SUGAR-----                         | 144,422 |                  |         | 144,422  |       |
| 2631 PAPER AND PAPERBOARD-----          | 38,607  | 38,607           |         |          |       |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 987     | 987              |         |          |       |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 40,313  | 40,313           |         |          |       |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 4,200   |                  | 4,200   |          |       |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 55,143  | 55,143           |         |          |       |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 9,838   | 9,838            |         |          |       |
| 2915 RESIDUAL FUEL OIL-----             | 4,968   |                  |         |          | 4,968 |
| 2920 COKE, PETROLEUM COKE-----          | 100,595 |                  | 100,595 |          |       |
| 3310 FERROALLOYS-----                   | 6,800   | 6,800            |         |          |       |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 2,682   |                  |         | 2,682    |       |
| TOTAL TON-MILES, 1,247,350.             |         |                  |         |          |       |

CHICAGO RIVER (MAIN AND NORTH BRANCH), ILL.  
(INCLUDED IN PORT OF CHICAGO)

SECTION INCLUDED: MAIN RIVER FROM RUSH STREET TO JUNCTION OF NORTH AND SOUTH BRANCH; NORTH BRANCH TO NORTH AVENUE. CONTROLLING AND PROJECT DEPTHS: 21 FEET FROM RUSH STREET IN THE MAIN RIVER TO NORTH AVENUE IN THE NORTH BRANCH, INCLUDING THE NORTH BRANCH CANAL AND THE TURNING BASIN.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS      |
|-----------|-----------|-----------|-----------|
| 1971----- | 3,671,793 | 1974----- | 2,235,844 |
| 1972----- | 3,968,587 | 1975----- | 2,455,313 |
| 1973----- | 3,480,644 | 1976----- | 2,749,261 |
| 1974----- | 2,538,927 | 1979----- | 2,798,123 |
| 1975----- | 2,660,434 | 1980----- | 2,625,987 |

• PASSENGERS--46,900.

FREIGHT TRAFFIC, 1980

COASTWISE AND LAKEWISE

(SHORT TONS)

| COMMODITY                                   | TOTAL   | DOMESTIC                    |          |           |                            |
|---|---------|-----------------------------|----------|-----------|----------------------------|
|   |         | COASTWISE THROUGH DOWNBOUND | RECEIPTS | SHIPMENTS | LAKEWISE THROUGH DOWNBOUND |
| TOTAL-----                                  | 701,190 | 200                         | 135,797  | 1,261     | 46,688                     |
| 2813 ALCOHOLS-----                          | 1,326   |                             |          |           | 1,326                      |
| 2819 BASIC CHEMICALS AND PROD, NEC-----     | 176,369 |                             |          |           | 176,369                    |
| 2911 GASOLINE-----                          | 3,744   |                             |          |           | 3,744                      |
| 2914 DISTILLATE FUEL OIL-----               | 41,561  |                             |          |           | 24,343                     |
| 2915 RESIDUAL FUEL OIL-----                 | 327,210 |                             |          |           | 17,167                     |
| 2918 ASPHALT, TAR, AND PITCHES-----         | 13,702  |                             |          |           | 13,702                     |
| 3241 BUILDING CEMENT-----                   | 135,797 |                             | 135,797  |           |                            |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----      | 200     | 200                         |          |           |                            |
| 4011 IRON AND STEEL SCRAP-----              | 1,261   |                             |          | 1,261     |                            |
| TON-MILES, COASTWISE AND LAKEWISE, 703,712. |         |                             |          |           |                            |

INTERNAL

(SHORT TONS)

| COMMODITY                               | TOTAL     | RECEIPTS | SHIPMENTS | LOCAL     | THROUGH |           |
|---|-----------|----------|-----------|-----------|---------|-----------|
|   |           |          |           |           | UPBOUND | DOWNBOUND |
| TOTAL-----                              | 1,924,717 | 437,088  | 269,184   | 1,055,347 | 168,182 | 7,876     |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 48        |          |           |           |         | 48        |
| 1121 COAL AND LIGNITE-----              | 2,750     | 2,750    |           |           |         |           |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 1,248,742 | 222,758  |           | 1,026,984 |         |           |
| 1499 NONMETALLIC MINERALS, NEC-----     | 149,846   | 106,576  | 21,987    | 16,483    |         |           |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 29,658    |          | 29,658    |           |         |           |
| 2001 SUGAR-----                         | 147,929   | 2,059    | 1,820     |           | 144,422 |           |
| 2631 PAPER AND PAPERBOARD-----          | 16,763    |          | 16,763    |           |         |           |
| 2810 SODIUM HYDROXIDE-----              | 16,048    | 16,048   |           |           |         |           |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 33,762    | 33,762   |           |           |         |           |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 12,998    |          |           |           | 12,998  |           |
| 2915 RESIDUAL FUEL OIL-----             | 4,968     |          |           |           |         | 4,968     |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 1,744     | 1,744    |           |           |         |           |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 20,616    |          |           |           |         |           |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 11,338    | 9,057    | 1,821     |           |         | 1,260     |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 3,561     | 3,561    |           |           |         |           |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 12,981    | 12,981   |           |           |         |           |
| 3411 FABRICATED METAL PRODUCTS-----     | 3,811     | 3,811    |           |           |         |           |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

CHICAGO RIVER (MAIN AND NORTH BRANCH), ILL.  
(INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

| COMMODITY                              | TOTAL   | RECEIPTS | SHIPMENTS | LOCAL  | THROUGH |           |
|--|---------|----------|-----------|--------|---------|-----------|
|  |         |          |           |        | UPBOUND | DOWNBOUND |
| 3911 MACHINERY, EXCEPT ELECTRICAL----- | 3,482   |          |           |        |         | 800       |
| 4011 IRON AND STEEL SCRAP-----         | 207,924 | 1,297    | 194,787   | 11,880 | 2,682   |           |
| TON-MILES, INTERNAL, 3,292,849.        |         |          |           |        |         |           |
| TONS, ALL TRAFFIC, 2,825,907.          |         |          |           |        |         |           |
| TON-MILES, ALL TRAFFIC, 3,955,761.     |         |          |           |        |         |           |

CHICAGO RIVER, SOUTH BRANCH, ILL. (INCLUDED IN PORT OF  
CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

SECTION INCLUDED: DAMEN AVENUE TO LAKE STREET, CONTROLLING AND PROJECT DEPTHS: 9 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS      |
|-----------|-----------|-----------|-----------|
| 1971----- | 5,046,929 | 1976----- | 2,897,111 |
| 1972----- | 4,937,336 | 1977----- | 3,099,585 |
| 1973----- | 4,636,427 | 1978----- | 3,030,229 |
| 1974----- | 3,661,106 | 1979----- | 3,328,459 |
| 1975----- | 3,420,145 | 1980----- | 3,510,705 |

\* PASSENGERS--1,290.

## FREIGHT TRAFFIC, 1980

COASTWISE AND LAKEWISE

(SHORT TONS)

| COMMODITY                                     | TOTAL   | DOMESTIC             |           |                    |           |
|---|---------|----------------------|-----------|--------------------|-----------|
|   |         | COASTWISE            | LAKEWISE  |                    |           |
|   |         | THROUGH<br>DOWNBOUND | SHIPMENTS | THROUGH<br>UPBOUND | DOWNBOUND |
| TOTAL-----                                    | 566,793 | 200                  | 1,400     | 46,600             | 518,593   |
| 2813 ALCOHOLS-----                            | 1,326   |                      |           | 1,326              |           |
| 2819 BASIC CHEMICALS AND PROD, NEC-----       | 176,389 |                      |           |                    | 176,389   |
| 2911 GASOLINE-----                            | 3,744   |                      |           | 3,744              |           |
| 2914 DISTILLATE FUEL OIL-----                 | 41,561  |                      |           | 24,363             | 17,198    |
| 2915 RESIDUAL FUEL OIL-----                   | 327,210 |                      |           | 17,167             | 310,043   |
| 2918 ASPHALT, TAR, AND BITUMENS-----          | 13,702  |                      |           |                    | 13,702    |
| 3911 MACHINERY, EXCEPT ELECTRICAL-----        | 200     | 200                  |           |                    |           |
| 4011 IRON AND STEEL SCRAP-----                | 2,661   |                      | 1,400     |                    | 1,261     |
| TON-MILES, COASTWISE AND LAKEWISE, 2,828,365. |         |                      |           |                    |           |

## INTERNAL

(SHORT TONS)

| COMMODITY                               | TOTAL     | RECEIPTS | SHIPMENTS | LOCAL  | THROUGH   |           |
|---|-----------|----------|-----------|--------|-----------|-----------|
|   |           |          |           |        | UPBOUND   | DOWNBOUND |
| TOTAL-----                              | 2,943,912 | 899,903  | 87,416    | 31,930 | 1,639,057 | 285,612   |
| 0103 CORN-----                          | 1,574     |          | 1,574     |        |           |           |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 48        |          |           | 48     |           |           |
| 1221 COAL AND LIGNITE-----              | 818,680   | 815,930  |           |        | 2,750     |           |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 1,281,624 |          |           | 31,882 | 1,248,922 | 820       |
| 1499 NONMETALLIC MINERALS, NEC-----     | 192,052   | 47,006   |           |        | 122,359   | 22,687    |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 29,656    |          |           |        |           | 29,656    |
| 2042 PREPARED ANIMAL FEEDS-----         | 1,571     |          | 1,571     |        |           |           |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 3,095     |          | 3,095     |        |           |           |
| 2061 SUGAR-----                         | 147,309   |          |           |        | 146,481   | 1,028     |
| 2421 LUMBER-----                        | 14,525    | 14,525   |           |        |           |           |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 5,859     | 5,859    |           |        |           |           |
| 2631 PAPER AND PAPERBOARD-----          | 16,703    |          |           |        |           | 16,703    |
| 2810 SODIUM HYDROXIDE-----              | 16,046    |          |           |        | 16,046    |           |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 33,792    |          |           |        | 33,792    |           |
| 2821 PLASTIC MATERIALS-----             | 2,866     | 2,866    |           |        |           |           |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 12,998    |          |           |        | 12,998    |           |
| 2915 RESIDUAL FUEL OIL-----             | 4,968     |          |           |        |           | 4,968     |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 1,744     |          |           |        | 1,744     |           |
| 3319 IRON, STEEL SHAPES, EXC SHEET----- | 25,136    | 4,520    |           |        | 20,616    |           |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 14,996    | 2,858    | 800       |        | 9,057     | 2,281     |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 4,910     | 1,349    |           |        | 3,561     |           |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 15,752    | 2,771    |           |        | 12,981    |           |
| 3411 FABRICATED METAL PRODUCTS-----     | 4,230     | 419      |           |        | 3,811     |           |
| 3911 MACHINERY, EXCEPT ELECTRICAL-----  | 3,882     | 400      |           |        | 2,682     | 800       |
| 4011 IRON AND STEEL SCRAP-----          | 289,694   | 1,400    | 88,378    |        | 1,257     | 286,667   |
| TON-MILES, INTERNAL, 10,642,752.        |           |          |           |        |           |           |
| TONS, ALL TRAFFIC, 3,510,705.           |           |          |           |        |           |           |
| TON-MILES, ALL TRAFFIC, 13,471,097.     |           |          |           |        |           |           |

## CHICAGO, ILL., DISTRICT

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CHICAGO SANITARY AND SHIP CANAL, ILL. (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

SECTION INCLUDED: CHICAGO SANITARY AND SHIP CANAL (CHICAGO DRAINAGE CANAL), DAMEN AVENUE, CHICAGO TO LOCKPORT, ILL. CONTROLLING AND PROJECT DEPTHS: 9 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS       | YEAR | TONS       |
|------|------------|------|------------|
| 1971 | 24,722,954 | 1976 | 23,629,761 |
| 1972 | 25,570,393 | 1977 | 21,826,537 |
| 1973 | 25,603,691 | 1978 | 19,942,488 |
| 1974 | 27,525,065 | 1979 | 20,813,114 |
| 1975 | 26,567,542 | 1980 | 22,687,576 |

\* PASSENGERS--1,300.

## FREIGHT TRAFFIC, 1980

## COASTWISE AND LAKEWISE

(SHORT TONS)

| COMMODITY                          | TOTAL       | DOMESTIC  |           |         |           |           |           |
|------------------------------------|-------------|-----------|-----------|---------|-----------|-----------|-----------|
|                                    |             | COASTWISE |           | THROUGH | LAKEWISE  |           | THROUGH   |
|                                    |             | RECEIPTS  | SHIPMENTS | UPBOUND | RECEIPTS  | SHIPMENTS | DOWNBOUND |
| TOTAL                              | 1,294,583   | 200       | 22,800    | 9,034   | 1,118,181 | 132,544   | 11,824    |
| 1471 PHOSPHATE ROCK                | 6,378       |           |           | 6,378   |           |           |           |
| 1479 NATURAL FERTILIZER MATS, NEC  | 22,800      |           | 22,800    |         |           |           |           |
| 2813 ALCOHOLS                      | 4,647       |           |           |         |           | 4,647     |           |
| 2819 BASIC CHEMICALS AND PROD, NEC | 294,024     |           |           |         | 294,024   |           |           |
| 2871 NITROGENOUS CHEM FERTILIZERS  | 22,282      |           |           |         |           | 22,282    |           |
| 2879 FERTILIZER AND MATERIALS, NEC | 2,656       |           |           | 2,656   |           |           |           |
| 2911 GASOLINE                      | 8,794       |           |           |         | 5,010     | 3,744     |           |
| 2913 KEROSENE                      | 2,133       |           |           |         |           | 2,133     |           |
| 2914 DISTILLATE FUEL OIL           | 158,462     |           |           |         | 101,453   | 57,009    |           |
| 2915 RESIDUAL FUEL OIL             | 699,133     |           |           |         | 665,919   | 24,051    | 9,163     |
| 2917 NAPHTHA, PETROLEUM SOLVENTS   | 18,037      |           |           |         | 9,117     | 12,918    |           |
| 2918 ASPHALT, TAR, AND PITCHES     | 43,737      |           |           |         | 43,737    |           |           |
| 3318 FERROALLOYS                   | 1,519       |           |           |         | 1,519     |           |           |
| 3511 MACHINERY, EXCEPT ELECTRICAL  | 200         | 200       |           |         |           |           |           |
| 4011 IRON AND STEEL SCRAP          | 9,821       |           |           |         | 1,400     | 5,768     | 2,661     |
| TON-MILES, COASTWISE AND LAKEWISE, | 14,003,161. |           |           |         |           |           |           |

## INTERNAL

(SHORT TONS)

| COMMODITY                          | TOTAL      | RECEIPTS  | SHIPMENTS | LOCAL     | THROUGH   |           |
|------------------------------------|------------|-----------|-----------|-----------|-----------|-----------|
|                                    |            |           |           |           | UPBOUND   | DOWNBOUND |
| TOTAL                              | 21,392,993 | 7,673,505 | 4,542,172 | 2,475,649 | 3,663,111 | 3,038,556 |
| 0103 CORN                          | 367,847    |           | 295,888   | 4,187     |           | 67,972    |
| 0107 WHEAT                         | 49,879     |           | 8,654     |           | 19,191    | 31,064    |
| 0111 SOYBEANS                      | 136,147    |           | 118,466   |           |           | 17,681    |
| 0119 OILSEEDS, NEC                 | 1,259      |           |           |           |           | 1,259     |
| 1051 ALUMINUM ORES, CONCENTRATES   | 101,901    |           |           |           | 101,901   |           |
| 1051 MANGANESE ORES, CONCENTRATES  | 23,880     |           |           |           | 23,880    |           |
| 1051 NONFERROUS ORES, CONCENT, NEC | 19,969     | 1,055     |           |           | 18,891    |           |
| 1121 COAL AND LIGNITE              | 4,949,899  | 4,010,467 | 3,315     |           | 924,938   | 11,179    |
| 1411 LIMESTONE                     | 8,114      |           |           |           | 8,114     |           |
| 1442 SAND, GRAVEL, CRUSHED ROCK    | 3,566,755  | 924,556   | 784,573   | 1,585,980 | 269,666   |           |
| 1492 SULPHUR, DRY                  | 1,350      |           | 1,350     |           |           |           |
| 1499 NONMETALLIC MINERALS, NEC     | 619,877    | 234,157   | 19,280    | 19,786    | 322,417   | 24,237    |
| 2014 TALLOW, ANIMAL FATS AND OILS  | 161,866    |           |           |           | 1,429     | 160,439   |
| 2042 PREPARED ANIMAL FEEDS         | 432,048    |           | 136,380   | 1,310     |           | 294,350   |
| 2049 GRAIN MILL PRODUCTS, NEC      | 64,064     |           | 9,590     |           |           | 54,474    |
| 2061 SUGAR                         | 209,398    | 61,889    |           |           | 146,481   | 1,028     |
| 2062 MOLASSES                      | 39,202     |           |           |           | 39,202    |           |
| 2091 VEGETABLE OILS, MARG, SHORT   | 18,760     |           | 1,422     |           | 4,141     | 13,197    |
| 2421 LUMBER                        | 22,807     | 300       |           |           | 22,507    |           |
| 2431 VENEER, PLYWOOD, WORKED WOOD  | 5,859      |           |           |           | 5,859     |           |
| 2611 PULP                          | 14,410     | 3,930     |           |           | 10,480    |           |
| 2631 PAPER AND PAPERBOARD          | 21,832     |           |           |           | 9,129     | 16,703    |
| 2810 SODIUM HYDROXIDE              | 293,981    | 232,073   |           | 1,171     | 60,737    |           |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS  | 51,108     | 1,362     | 42,791    | 2,894     | 1,311     | 2,750     |
| 2813 ALCOHOLS                      | 260,812    | 251,695   | 267       |           | 8,650     |           |
| 2817 BENZENE AND TOLUENE           | 133,450    | 21,174    | 61,845    | 1,397     | 19,596    | 29,938    |
| 2819 BASIC CHEMICALS AND PROD, NEC | 809,486    | 380,338   | 76,636    | 17,159    | 330,114   | 5,239     |
| 2821 PLASTIC MATERIALS             | 2,869      |           |           |           | 2,869     |           |
| 2871 NITROGENOUS CHEM FERTILIZERS  | 294,087    | 67,937    |           |           | 218,154   | 7,996     |
| 2873 PHOSPHATIC CHEM FERTILIZERS   | 33,175     |           |           |           | 33,175    |           |
| 2879 FERTILIZER AND MATERIALS, NEC | 8,020      | 4,820     |           |           | 3,200     |           |
| 2891 MISCELLANEOUS CHEMICAL PROD   | 18,608     | 2,886     | 15,722    |           |           |           |
| 2911 GASOLINE                      | 183,648    | 2,356     | 121,799   | 38,193    | 21,300    |           |
| 2912 JET FUEL                      | 45,912     | 10,500    | 35,412    |           |           |           |
| 2914 DISTILLATE FUEL OIL           | 347,098    | 41,963    | 27,472    | 268,769   | 2,634     | 6,260     |
| 2915 RESIDUAL FUEL OIL             | 1,422,369  | 286,350   | 565,896   | 427,800   | 11,913    | 130,350   |
| 2916 LUBRICATING OILS AND GRASES   | 304,164    | 245,079   |           | 25,021    | 1,571     | 32,405    |
| 2917 NAPHTHA, PETROLEUM SOLVENTS   | 665,912    | 325,629   | 188,840   | 6,769     | 57,705    | 86,769    |
| 2918 ASPHALT, TAR, AND PITCHES     | 121,316    | 76,656    | 30,253    | 7,817     |           | 6,590     |
| 2920 COKE, PETROLEUM COKE          | 763,164    | 1,400     | 136,192   | 64,735    | 419,357   | 141,480   |
| 2991 PETROLEUM AND COAL PROD, NEC  | 26,495     | 23,797    |           |           | 2,698     |           |
| 3241 BUILDING CEMENT               | 428,336    | 428,336   |           |           |           |           |
| 3291 STRUCTURAL CLAY PRODUCTS      | 8,260      |           |           |           | 8,260     |           |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

CHICAGO SANITARY AND SHIP CANAL, ILL. (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL     | RECEIPTS | SHIPMENTS | LOCAL | THROUGH |           |
|---|-----------|----------|-----------|-------|---------|-----------|
|   |           |          |           |       | UPBOUND | DOWNBOUND |
| 3271 LIME-----                          | 159,576   | 1,436    |           |       | 158,140 |           |
| 3311 PIG IRON-----                      | 17,600    |          |           |       | 9,442   | 8,158     |
| 3312 SLAG-----                          | 66,789    |          |           |       |         | 66,789    |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 125,390   | 3,791    | 8,355     |       | 16,836  | 98,408    |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 326,978   | 9,727    | 6,800     | 800   | 54,582  | 255,069   |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 636,873   | 5,932    | 7,944     |       | 58,495  | 572,502   |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 51,994    | 1,123    |           |       | 38,646  | 14,222    |
| 3318 FERROALLOYS-----                   | 170,755   |          |           | 1,353 | 184,870 | 4,522     |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 298,563   | 6,329    |           |       | 24,249  | 267,965   |
| 3323 LEAD AND ZINC, UNWORKED-----       | 4,705     | 1,319    |           |       | 1,978   | 1,408     |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 731       |          |           |       | 731     |           |
| 3411 FABRICATED METAL PRODUCTS-----     | 32,048    | 1,293    | 1,661     |       |         | 23,384    |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 9,597     |          |           |       | 3,082   | 6,515     |
| 3731 SHIPS AND BOATS-----               | 46        |          | 46        |       |         |           |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 500       |          |           | 500   |         |           |
| 4011 IRON AND STEEL SCRAP-----          | 653,598   | 1,250    | 61,246    |       | 15,533  | 575,569   |
| 4020 WASTE AND SCRAP, NEC-----          | 1,774,577 |          | 1,774,577 |       |         |           |
| 4112 COMMODITIES, NEC-----              | 600       |          |           |       |         | 600       |
| 4119 EMPTY CONTAINERS-----              | 760       | 600      |           |       | 160     |           |
| TON-MILES, INTERNAL, 340,464,186.       |           |          |           |       |         |           |
| TONS, ALL TRAFFIC, 22,687,576.          |           |          |           |       |         |           |
| TON-MILES, ALL TRAFFIC, 354,469,347.    |           |          |           |       |         |           |

CALUMET-SAG CHANNEL, ILL. (INCLUDED IN PORT OF CHICAGO; ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

SECTION INCLUDED: CALUMET-SAG CHANNEL FROM ITS JUNCTION WITH CHICAGO SANITARY AND SHIP CANAL TO BLUE ISLAND, LITTLE CALUMET AND CALUMET RIVERS TO TURNING BASIN NO. 5. CONTROLLING AND PROJECT DEPTHS: 9 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | PASSENGERS | YEAR      | TONS      | PASSENGERS |
|-----------|-----------|------------|-----------|-----------|------------|
| 1971----- | 6,492,610 | 7,018      | 1976----- | 6,466,901 | 1,650      |
| 1972----- | 5,882,220 | 29,360     | 1977----- | 6,343,439 | 1,620      |
| 1973----- | 6,111,949 | 1,955      | 1978----- | 6,834,231 | 1,200      |
| 1974----- | 6,983,482 | 1,200      | 1979----- | 5,830,427 | 1,290      |
| 1975----- | 7,126,396 | 1,110      | 1980----- | 6,842,097 | 1,300      |

FREIGHT TRAFFIC, 1980

COASTWISE AND LAKEWISE

(SHORT TONS)

| COMMODITY                                      | TOTAL   | DOMESTIC  |           |          |           |
|--|---------|-----------|-----------|----------|-----------|
|  |         | COASTWISE |           | LAKEWISE |           |
|  |         | RECEIPTS  | SHIPMENTS | UPBOUND  | DOWNBOUND |
| TOTAL-----                                     | 775,579 | 9,034     | 5,372     | 87,768   | 610,012   |
| 1471 PHOSPHATE ROCK-----                       | 6,378   | 6,378     |           |          |           |
| 2813 ALCOHOLS-----                             | 3,321   |           |           | 3,321    |           |
| 2819 BASIC CHEMICALS AND PROD, NEC-----        | 117,635 |           |           |          | 117,635   |
| 2871 NITROGENOUS CHEM FERTILIZERS-----         | 22,282  |           |           | 22,282   |           |
| 2879 FERTILIZER AND MATERIALS, NEC-----        | 2,656   | 2,656     |           |          |           |
| 2911 GASOLINE-----                             | 7,532   |           | 2,522     |          | 5,010     |
| 2912 JET FUEL-----                             | 8,501   |           | 8,501     |          |           |
| 2913 KEROSENE-----                             | 2,133   |           |           | 2,133    |           |
| 2914 DISTILLATE FUEL OIL-----                  | 144,697 |           | 27,798    | 32,646   | 84,255    |
| 2915 RESIDUAL FUEL OIL-----                    | 381,086 |           |           | 16,047   | 365,039   |
| 2916 LUBRICATING OILS AND GREASES-----         | 2,363   |           | 2,363     |          |           |
| 2917 NAPHTHA, PETROLEUM SOLVENTS-----          | 35,620  |           | 17,583    | 12,918   | 5,119     |
| 2918 ASPHALT, TAR, AND PITCHES-----            | 30,035  |           |           |          | 30,035    |
| 3318 FERROALLOYS-----                          | 1,519   |           |           |          | 1,519     |
| 4011 IRON AND STEEL SCRAP-----                 | 9,821   |           |           | 8,421    | 1,400     |
| TON-MILES, COASTWISE AND LAKEWISE, 17,649,258. |         |           |           |          |           |

INTERNAL

(SHORT TONS)

| COMMODITY                             | TOTAL     | RECEIPTS | SHIPMENTS | LOCAL   | THROUGH   |           |
|---------------------------------------|-----------|----------|-----------|---------|-----------|-----------|
|                                       |           |          |           |         | UPBOUND   | DOWNBOUND |
| TOTAL-----                            | 5,266,518 | 347,736  | 197,921   | 297,970 | 1,930,470 | 2,492,831 |
| 0103 CORN-----                        | 70,585    |          |           |         | 4,187     | 66,398    |
| 0137 WHEAT-----                       | 41,225    |          |           |         | 10,161    | 31,064    |
| 0111 SOYBEANS-----                    | 17,681    |          |           |         |           | 17,681    |
| 0119 OILSEEDS, NEC-----               | 1,259     |          |           |         |           | 1,259     |
| 1031 ALUMINUM ORES, CONCENTRATES----- | 101,901   |          |           |         | 101,901   |           |

## CHICAGO, ILL., DISTRICT

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CALUMET-SAG CHANNEL, ILL. (INCLUDED IN PORT OF CHICAGO;  
ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL        | RECEIPTS | SHIPMENTS | LOCAL   | THROUGH |           |
|---|--------------|----------|-----------|---------|---------|-----------|
|   |              |          |           |         | UPBOUND | DOWNBOUND |
| 1061 MANGANESE ORES, CONCENTRATES-----  | 23,880       |          |           |         | 23,880  |           |
| 1091 NONFERROUS ORES, CONCENT. NEC----- | 18,801       | 9,371    |           |         | 9,371   |           |
| 1121 COAL AND LIGNITE-----              | 117,437      |          |           |         | 186,250 | 11,179    |
| 1411 LIMESTONE-----                     | 8,144        |          |           |         | 8,114   |           |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 139,506      | 49,512   |           | 92,620  | 1,376   |           |
| 1499 NONMETALLIC MINERALS, NEC-----     | 171,005      | 13,879   |           |         | 194,960 | 2,250     |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 132,216      | 1,429    | 74,666    |         | 56,115  |           |
| 2042 PREPARED ANIMAL FEEDS-----         | 294,007      |          |           |         | 1,318   | 292,779   |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 51,379       |          |           |         |         | 51,379    |
| 2062 MOLASSES-----                      | 39,202       | 29,463   |           |         | 9,739   |           |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 17,330       |          |           |         | 4,141   | 13,197    |
| 2421 LUMBER-----                        | 7,982        |          |           |         | 7,982   |           |
| 2611 PULP-----                          | 10,480       |          |           |         | 10,480  |           |
| 2631 PAPER AND PAPERBOARD-----          | 5,129        |          |           |         | 5,129   |           |
| 2810 SODIUM HYDROXIDE-----              | 45,862       |          |           |         | 44,691  | 1,171     |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 4,061        |          |           |         | 1,311   | 2,750     |
| 2813 ALCOHOLS-----                      | 8,890        | 1,867    |           |         | 6,983   |           |
| 2817 BENZENE AND TOLUENE-----           | 49,534       | 1,347    |           |         | 18,249  | 29,936    |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 307,463      | 163,933  | 3,909     | 9,902   | 132,309 | 1,640     |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 213,152      |          |           |         | 205,156 | 7,996     |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 33,179       |          |           |         | 33,179  |           |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 3,200        | 3,200    |           |         |         |           |
| 2911 GASOLINE-----                      | 59,403       | 21,300   |           | 38,193  |         |           |
| 2914 DISTILLATE FUEL OIL-----           | 32,438       |          | 1,256     |         | 2,654   | 7,284     |
| 2915 RESIDUAL FUEL OIL-----             | 32,943       | 11,913   | 93,833    | 127,976 | 29,988  | 50,833    |
| 2916 LUBRICATING OILS AND GREASES-----  | 45,881       |          |           | 11,819  | 1,571   | 32,495    |
| 2917 NAPHTHA, PETROLEUM SOLVENTS-----   | 144,474      | 1,962    | 2,865     |         | 59,743  | 83,904    |
| 2918 ASPHALT, TAR, AND PITCHES-----     | 6,500        |          | 1,500     |         |         | 5,000     |
| 2920 COKE, PETROLEUM COKE-----          | 625,572      | 1,128    |           |         | 482,964 | 141,480   |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 2,698        |          |           |         |         |           |
| 3251 STRUCTURAL CLAY PRODUCTS-----      | 8,260        | 1,449    |           |         | 6,811   |           |
| 3271 LIME-----                          | 158,140      |          |           |         | 158,140 |           |
| 3311 PIG IRON-----                      | 17,600       |          |           |         | 9,442   | 8,158     |
| 3312 SLAG-----                          | 66,789       |          |           |         |         | 66,789    |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 113,508      | 4,096    | 1,875     |         | 10,996  | 96,533    |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 285,315      | 6,214    | 3,381     |         | 23,232  | 252,488   |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 808,001      | 4,083    | 9,261     |         | 34,497  | 560,160   |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 47,963       | 25,434   |           |         | 8,302   | 14,227    |
| 3318 FERROALLOYS-----                   | 170,759      |          |           |         | 164,890 | 5,869     |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 276,482      |          | 4,992     |         | 8,517   | 263,373   |
| 3323 LEAD AND ZINC, UNWORKED-----       | 3,386        |          |           |         | 1,978   | 1,408     |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 731          |          |           |         |         |           |
| 3411 FABRICATED METAL PRODUCTS-----     | 24,864       |          |           |         | 1,480   | 23,384    |
| 3911 MACHINERY, EXCEPT ELECTRICAL-----  | 5,715        |          | 83        |         |         | 5,632     |
| 4011 IRON AND STEEL SCRAP-----          | 313,288      |          | 1,408     |         | 24,756  | 287,132   |
| 4112 COMMODITIES, NEC-----              | 600          |          |           |         |         | 600       |
| 4119 EMPTY CONTAINERS-----              | 160          | 160      |           |         |         |           |
| TON-MILES, INTERNAL.                    | 119,429,839. |          |           |         |         |           |
| TONS, ALL TRAFFIC.                      | 6,042,097.   |          |           |         |         |           |
| TON-MILES, ALL TRAFFIC.                 | 137,079,097. |          |           |         |         |           |

LAKE CALUMET, ILL. (INCLUDED IN PORT OF CHICAGO)

SECTION INCLUDED: ENTRANCE CHANNEL FROM THE CALUMET RIVER TO A HARBOR AREA AT SOUTH END OF LAKE WITH A CHANNEL EXTENDING NORTHWARD FOR A DISTANCE OF 3,000 FEET AND A WIDTH OF 1,000 FEET. CONTROLLING AND PROJECT DEPTHS: 27 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | PASSENGERS | YEAR      | TONS      | PASSENGERS |
|-----------|-----------|------------|-----------|-----------|------------|
| 1971----- | 2,443,236 |            | 1976----- | 1,752,289 | 1,600      |
| 1972----- | 2,085,342 | 28,000     | 1977----- | 1,354,761 | 3,240      |
| 1973----- | 2,281,365 |            | 1978----- | 1,814,313 |            |
| 1974----- | 1,912,743 | 1,200      | 1979----- | 2,312,113 |            |
| 1975----- | 1,547,498 | 1,200      | 1980----- | 1,314,536 |            |

## FREIGHT TRAFFIC, 1980

FOREIGN

(SHORT TONS)

| COMMODITY                             | TOTAL   | OVERSEAS |         | CANADIAN |         |
|---------------------------------------|---------|----------|---------|----------|---------|
|                                       |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |
| TOTAL-----                            | 315,398 | 86,849   | 132,043 | 27,975   | 68,231  |
| 0103 CORN-----                        | 40,312  |          | 16,414  |          | 23,898  |
| 0104 OATS-----                        | 304     |          | 141     |          | 163     |
| 0105 RICE-----                        | 13      | 13       |         |          |         |
| 0107 WHEAT-----                       | 66      |          | 66      |          |         |
| 0111 SOYBEANS-----                    | 13,095  |          |         |          | 13,095  |
| 0121 TOBACCO, LEAF-----               | 3,133   | 2,734    |         | 399      |         |
| 0129 FIELD CROPS, NEC-----            | 99      | 99       |         |          |         |
| 0141 FRESH AND FROZEN VEGETABLES----- | 2       | 2        |         |          |         |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

LAKE CALUMNEY, ILL. (INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

FOREIGN--CONTINUED

(SHORT TONS)

| COMMODITY                          | TOTAL  | OVERSEAS |         | CANADIAN |         |
|------------------------------------|--------|----------|---------|----------|---------|
|                                    |        | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |
| 0161 ANIMALS AND PRODUCTS, NEC     | 37     |          | 37      |          |         |
| 0191 MISCELLANEOUS FARM PRODUCTS   | 14     | 14       |         |          |         |
| 0861 FOREST PRODUCTS, NEC          | 15     | 15       |         |          |         |
| 1091 ALUMINUM ORES, CONCENTRATES   | 1      |          | 1       |          |         |
| 1442 SAND, GRAVEL, CRUSHED ROCK    | 232    |          | 61      |          | 171     |
| 1451 CLAY                          | 8,171  | 68       | 8,103   |          |         |
| 1492 SULPHUR, DRY                  | 2      |          |         |          |         |
| 1499 NONMETALLIC MINERALS, NEC     | 13,525 | 87       | 66      | 13,372   |         |
| 1911 ORDNANCE AND ACCESSORIES      | 27     | 8        | 19      |          |         |
| 2014 TALLOW, ANIMAL FATS AND OILS  | 31,874 |          | 31,874  |          |         |
| 2015 ANIMAL BY-PRODUCTS, NEC       | 312    |          | 236     |          | 76      |
| 2031 FISH AND SHELLFISH, PREPARED  | 4      | 4        |         |          |         |
| 2034 VEGETABLES AND PREP, NEC      | 155    | 69       | 43      |          | 43      |
| 2039 PREP FRUIT AND VEG JUICE, NEC | 29     | 1        |         | 28       |         |
| 2041 WHEAT FLOUR AND SEMOLINA      | 9,331  |          | 9,048   |          | 283     |
| 2042 PREPARED ANIMAL FEEDS         | 395    | 62       | 293     |          | 40      |
| 2049 GRAIN MILL PRODUCTS, NEC      | 17,929 | 15       | 16,922  | 42       | 950     |
| 2081 ALCOHOLIC BEVERAGES           | 4,090  | 3,847    | 106     | 121      | 16      |
| 2091 VEGETABLE OILS, MARG, SHORT   | 1,803  |          | 1,694   |          | 109     |
| 2099 MISCELLANEOUS FOOD PRODUCTS   | 1,588  | 334      | 838     | 16       | 400     |
| 2211 BASIC TEXTILE PRODUCTS        | 270    | 29       | 192     |          | 49      |
| 2212 TEXTILE FIBERS, NEC           | 1,066  | 1,066    |         |          |         |
| 2311 APPAREL                       | 21     | 19       | 2       |          |         |
| 2411 LOGS                          | 1,343  |          | 1,343   |          |         |
| 2431 VENEER, PLYWOOD, WORKED WOOD  | 21     | 21       |         |          |         |
| 2491 WOOD MANUFACTURES, NEC        | 134    | 4        | 106     |          | 24      |
| 2511 FURNITURE AND FIXTURES        | 127    | 92       | 22      | 11       | 2       |
| 2611 PULP                          | 15     | 15       |         |          |         |
| 2631 PAPER AND PAPERBOARD          | 406    | 2        | 347     | 10       | 47      |
| 2691 PULP AND PAPER PRODUCTS, NEC  | 101    | 2        | 73      |          | 26      |
| 2711 PRINTED MATTER                | 1,082  | 23       | 980     |          | 79      |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS  | 3,419  |          |         | 3,419    |         |
| 2819 BASIC CHEMICALS AND PROD, NEC | 10,433 | 23       | 577     | 9,668    | 165     |
| 2821 PLASTIC MATERIALS             | 216    | 18       | 158     |          | 40      |
| 2822 SYNTHETIC RUBBER              | 67     |          |         |          | 67      |
| 2831 DRUGS                         | 197    | 90       | 49      | 51       | 7       |
| 2841 SOAP                          | 164    |          | 37      |          | 131     |
| 2851 PAINTS                        | 232    | 176      | 19      | 22       | 15      |
| 2861 GUM AND WOOD CHEMICALS        | 32     |          | 16      |          | 16      |
| 2876 INSECTICIDES, DISINFECTANTS   | 48     |          |         |          | 48      |
| 2879 FERTILIZER AND MATERIALS, NEC | 65     |          |         | 65       |         |
| 2891 MISCELLANEOUS CHEMICAL PROD   | 1,686  | 468      | 817     |          | 401     |
| 2911 GASOLINE                      | 7      |          | 7       |          |         |
| 2916 LUBRICATING OILS AND GREASES  | 6,243  | 16       | 86      |          | 6,141   |
| 2920 COKE, PETROLEUM COKE          | 20,125 |          |         |          | 20,125  |
| 2991 PETROLEUM AND COAL PROD, NEC  | 10     |          | 10      |          |         |
| 3011 RUBBER AND MISC PLASTIC PROD  | 193    | 47       | 68      | 21       | 57      |
| 3111 LEATHER AND LEATHER PRODUCTS  | 15     | 15       |         |          |         |
| 3211 GLASS AND GLASS PRODUCTS      | 278    | 95       | 177     | 2        | 4       |
| 3251 STRUCTURAL CLAY PRODUCTS      | 431    | 431      |         |          |         |
| 3281 CUT STONE AND STONE PRODUCTS  | 842    | 842      |         |          |         |
| 3291 MISC NONMETALLIC MINERAL PROD | 129    | 60       | 60      |          | 9       |
| 3314 IRON AND STEEL PRIMARY FORMS  | 263    | 263      |         |          |         |
| 3315 IRON, STEEL SHAPES, EXC SHEET | 60,581 | 59,947   | 404     | 230      |         |
| 3316 IRON AND STEEL PLATES, SHEETS | 34,579 | 230      | 34,349  |          |         |
| 3317 IRON AND STEEL PIPE AND TUBE  | 5,309  | 5,264    | 33      | 1        | 11      |
| 3319 IRON AND STEEL PRODUCTS, NEC  | 527    | 422      | 64      |          | 41      |
| 3321 NONFERROUS METALS, NEC        | 66     |          | 36      |          | 30      |
| 3322 COPPER ALLOYS, UNWORKED       | 200    | 132      | 47      | 2        | 19      |
| 3323 LEAD AND ZINC, UNWORKED       | 5,560  | 5,543    |         | 17       |         |
| 3324 ALUMINUM AND ALLOYS, UNWORKED | 111    | 2        | 1       |          | 108     |
| 3411 FABRICATED METAL PRODUCTS     | 1,681  | 344      | 856     | 89       | 392     |
| 3511 MACHINERY, EXCEPT ELECTRICAL  | 4,539  | 2,107    | 2,012   | 70       | 350     |
| 3611 ELECTRICAL MACH AND EQUIP     | 1,160  | 292      | 648     | 4        | 216     |
| 3711 MOTOR VEHICLES, PARTS, EQUIP  | 1,424  | 360      | 931     |          | 133     |
| 3731 SHIPS AND BOATS               | 1      |          |         |          |         |
| 3791 MISC TRANSPORTATION EQUIPMENT | 460    | 62       | 103     | 245      | 50      |
| 3811 INSTR, TIME, PHOTO, OPT GOODS | 87     | 7        | 63      |          | 17      |
| 3911 MISC MANUFACTURED PRODUCTS    | 458    | 144      | 190     | 5        | 119     |
| 4011 IRON AND STEEL SCRAP          | 1,176  |          | 1,176   |          |         |
| 4012 NONFERROUS METAL SCRAP        | 889    |          | 847     |          | 42      |
| 4112 COMMODITIES, NEC              | 283    | 207      | 5       | 65       | 6       |
| 9999 DEPARTMENT OF DEFENSE AND SCI | 72     |          | 72      |          |         |
| TON-MILES, FOREIGN,                |        | 315,398. |         |          |         |

DOMESTIC  
(SHORT TONS)

| COMMODITY                      | TOTAL   | LAKEWISE |           | INTERNAL |           | LOCAL |
|--------------------------------|---------|----------|-----------|----------|-----------|-------|
|                                |         | RECEIPTS | SHIPMENTS | RECEIPTS | SHIPMENTS |       |
| TOTAL                          | 999,140 | 265,420  | 62,098    | 471,961  | 194,163   | 5,498 |
| 0103 CORN                      | 1,949   |          |           |          | 1,949     |       |
| 0111 SOYBEANS                  | 1,469   |          |           |          | 1,469     |       |
| 1121 COAL AND LIGNITE          | 1,400   |          |           | 1,400    |           |       |
| 1411 LIMESTONE                 | 23,410  | 22,000   |           | 1,410    |           |       |
| 1499 NONMETALLIC MINERALS, NEC | 29,523  | 24,115   |           | 1,408    |           |       |

## CHICAGO, ILL., DISTRICT

17

LAKE CALUMET, ILL. (INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1988--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL   | LAKEWIDE |           | INTERNAL |           | LOCAL |
|---|---------|----------|-----------|----------|-----------|-------|
|   |         | RECEIPTS | SHIPMENTS | RECEIPTS | SHIPMENTS |       |
| 2014 TALLOW, ANIMAL FATS AND OILS----   | 51,292  |          |           |          | 51,292    |       |
| 2042 PREPARED ANIMAL FEEDS-----         | 10,348  |          |           |          | 10,348    |       |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 2,377   |          |           |          | 2,377     |       |
| 2062 MOLASSES-----                      | 1,476   |          |           | 1,476    |           |       |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 2,751   |          |           | 2,751    |           |       |
| 2421 LUMBER-----                        | 2,634   |          |           | 2,634    |           |       |
| 2611 PULP-----                          | 10,480  |          |           | 10,480   |           |       |
| 2631 PAPER AND PAPERBOARD-----          | 2,417   |          |           | 2,417    |           |       |
| 2810 SODIUM HYDROXIDE-----              | 44,642  |          |           | 43,491   |           | 1,151 |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 4,041   |          |           | 1,311    | 2,750     |       |
| 2813 ALCOHOLS-----                      | 6,983   |          |           | 6,983    |           |       |
| 2817 BENZENE AND TOLUENE-----           | 35,266  | 17,037   |           | 18,249   |           |       |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 192,214 | 7,852    | 33,698    | 130,764  |           |       |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 3,010   |          |           | 3,010    |           |       |
| 2917 NAPHTHA, PETROLEUM SOLVENTS-----   | 219,843 | 140,969  |           | 49,107   | 34,107    |       |
| 2920 COKE, PETROLEUM COKE-----          | 17,170  |          |           | 4,911    | 12,259    |       |
| 3271 LIME-----                          | 146,539 |          |           | 146,539  |           |       |
| 3312 SLAG-----                          | 25,696  | 8,961    | 8,908     |          | 8,235     |       |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 6,761   |          |           | 6,761    |           |       |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 23,486  | 1,300    |           | 15,523   | 6,663     |       |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 50,525  | 21,547   |           | 8,105    | 18,073    | 2,800 |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 3,130   |          |           | 3,130    |           |       |
| 3318 FERROALLOYS-----                   | 5,029   |          |           | 5,029    |           |       |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 26,371  | 17,200   |           | 7,630    | 1,541     |       |
| 3323 LEAD AND ZINC, UNWORKED-----       | 1,408   |          |           |          | 1,408     |       |
| 3411 FABRICATED METAL PRODUCTS-----     | 1,088   |          |           | 78       | 938       |       |
| 4011 IRON AND STEEL SCRAP-----          | 48,492  | 4,839    |           | 1,364    | 40,722    | 1,927 |
| TON-MILES, DOMESTIC, 796,251.           |         |          |           |          |           |       |
| TONS, ALL TRAFFIC, 1,314,538.           |         |          |           |          |           |       |
| TON-MILES, ALL TRAFFIC, 1,111,649.      |         |          |           |          |           |       |

CALUMET HARBOR AND RIVER, ILL. AND IND.  
(INCLUDED IN PORT OF CHICAGO)

SECTION INCLUDED: CALUMET HARBOR AND RIVER TO TURNING BASIN NO. 5, CONTROLLING AND PROJECT DEPTHS; 20 FEET IN APPROACH CHANNEL, 20 FEET IN HARBOR, 27 FEET IN RIVER ENTRANCE CHANNEL TO E. J. &amp; E. R.R. BRIDGE, AND 27 FEET IN RIVER TO AND INCLUDING BASIN NO. 5.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS       | YEAR      | TONS       |
|-----------|------------|-----------|------------|
| 1971----- | 27,113,970 | 1976----- | 22,010,017 |
| 1972----- | 25,431,158 | 1977----- | 19,738,037 |
| 1973----- | 26,677,117 | 1978----- | 29,242,282 |
| 1974----- | 24,589,869 | 1979----- | 24,014,032 |
| 1975----- | 22,032,026 | 1980----- | 18,419,499 |

\* PASSENGERS--1,300.

## FREIGHT TRAFFIC, 1980

FOREIGN

(SHORT TONS)

| COMMODITY                               | TOTAL     | OVERSEAS |         |           |           | CANADIAN |           |           |           |
|---|-----------|----------|---------|-----------|-----------|----------|-----------|-----------|-----------|
|   |           | IMPORTS  | EXPORTS | THROUGH   |           | IMPORTS  | EXPORTS   | THROUGH   |           |
|   |           |          |         | EASTBOUND | WESTBOUND |          |           | EASTBOUND | WESTBOUND |
| TOTAL-----                              | 3,972,384 | 575,401  | 704,120 | 132,943   | 86,249    | 968,619  | 1,408,846 | 81,389    | 14,817    |
| 0103 CORN-----                          | 738,812   |          | 152,889 | 16,414    |           |          | 545,611   | 23,898    |           |
| 0104 OATS-----                          | 405       |          | 101     | 141       |           |          |           | 143       |           |
| 0105 RICE-----                          | 13        |          |         |           | 13        |          |           |           |           |
| 0107 WHEAT-----                         | 66        |          |         | 66        |           |          |           |           |           |
| 0111 SOYBEANS-----                      | 133,889   |          | 113,994 |           |           |          | 7,200     | 13,095    |           |
| 0121 TOBACCO, LEAF-----                 | 6,759     | 3,221    |         |           | 2,734     | 405      |           |           | 399       |
| 0129 FIELD CROPS, NEC-----              | 110       | 19       |         |           | 99        |          |           |           |           |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 16        | 14       |         |           |           |          |           |           |           |
| 0161 ANIMALS AND PRODUCTS, NEC-----     | 131       | 94       |         | 37        | 2         |          |           |           |           |
| 0191 MISCELLANEOUS FARM PRODUCTS-----   | 17        | 3        |         |           | 14        |          |           |           |           |
| 0861 FOREST PRODUCTS, NEC-----          | 22        | 7        |         |           | 15        |          |           |           |           |
| 1011 IRON ORE AND CONCENTRATES-----     | 574,968   | 85,077   |         |           |           | 489,691  |           |           |           |
| 1051 ALUMINUM ORES, CONCENTRATES-----   | 0         | 8        |         | 1         |           |          |           |           |           |
| 1121 COAL AND LIGNITE-----              | 7,435     |          |         |           |           |          | 7,435     |           |           |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 457       |          | 225     | 81        |           |          |           | 171       |           |
| 1451 CLAY-----                          | 206,842   | 137      | 130,643 | 8,103     | 68        |          | 67,891    |           |           |
| 1492 SULPHUR, DRY-----                  | 2         |          | 2       |           |           |          |           |           |           |
| 1499 NONMETALLIC MINERALS, NEC-----     | 326,769   | 1        | 66      | 66        | 87        | 313,243  |           | 13,198    | 214       |
| 1911 ORDNANCE AND ACCESSORIES-----      | 29        | 2        |         | 19        | 8         |          |           |           |           |
| 2012 MEAT AND PRODUCTS, NEC-----        | 3         | 3        |         |           |           |          |           |           |           |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 43,887    |          | 11,993  | 31,874    |           |          |           |           |           |
| 2019 ANIMAL BY-PRODUCTS, NEC-----       | 314       |          | 2       | 236       |           |          |           | 76        |           |
| 2031 FISH AND SHELLFISH, PREPARED-----  | 12        | 8        |         |           | 4         |          |           |           |           |
| 2034 VEGETABLES AND PREP, NEC-----      | 410       | 141      | 93      | 43        | 69        | 1        |           | 43        |           |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 54        | 25       |         |           | 1         |          |           |           | 28        |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 19,153    |          | 5,822   | 9,048     |           |          |           | 283       |           |



## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

CALUMET HARBOR AND RIVER, ILL. AND IND.  
(INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

FOREIGN--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL      | OVERSEAS |         |           |           | CANADIAN |         |           |           |
|---|------------|----------|---------|-----------|-----------|----------|---------|-----------|-----------|
|   |            | IMPORTS  | EXPORTS | THROUGH   |           | IMPORTS  | EXPORTS | THROUGH   |           |
|   |            |          |         | EASTBOUND | WESTBOUND |          |         | EASTBOUND | WESTBOUND |
| 2042 PREPARED ANIMAL FEEDS-----         | 6,039      | 9        | 5,595   | 293       | 62        | ---      | 40      | 40        | ---       |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 10,365     | 102      | 297     | 16,922    | 15        | 9        | 20      | 998       | 42        |
| 2081 ALCOHOLIC BEVERAGES-----           | 12,910     | 8,573    | ---     | 100       | 3,047     | 247      | ---     | 16        | 121       |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 1,961      | 49       | 91      | 1,094     | ---       | ---      | 10      | 109       | ---       |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 3,060      | 781      | 597     | 838       | 334       | 49       | 53      | 408       | 16        |
| 2211 BASIC TEXTILE PRODUCTS-----        | 385        | 44       | 20      | 192       | 20        | 43       | 3       | 49        | ---       |
| 2212 TEXTILE FIBERS, NEC-----           | 1,066      | ---      | ---     | ---       | 1,066     | ---      | ---     | ---       | ---       |
| 2311 APPAREL-----                       | 26         | 5        | ---     | 2         | 19        | ---      | ---     | ---       | ---       |
| 2411 LOGS-----                          | 2,216      | ---      | 873     | 1,343     | ---       | ---      | ---     | ---       | ---       |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 21         | ---      | ---     | ---       | 21        | ---      | ---     | ---       | ---       |
| 2491 WOOD MANUFACTURES, NEC-----        | 1,105      | 384      | 667     | 106       | 4         | ---      | ---     | 24        | ---       |
| 2511 FURNITURE AND FIXTURES-----        | 170        | 30       | 21      | 22        | 92        | ---      | ---     | 2         | 11        |
| 2611 PULP-----                          | 15         | ---      | ---     | ---       | 15        | ---      | ---     | ---       | ---       |
| 2631 PAPER AND PAPERBOARD-----          | 753        | 60       | 251     | 347       | 2         | 8        | 19      | 47        | 10        |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 148        | 10       | 27      | 73        | 2         | ---      | 9       | 26        | ---       |
| 2711 PRINTED MATTER-----                | 1,186      | 42       | 60      | 980       | 23        | ---      | ---     | 79        | ---       |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 10,944     | ---      | ---     | ---       | ---       | 7,548    | ---     | ---       | 3,419     |
| 2819 BASIC CHEMICALS AND PROD. NEC----- | 64,820     | 4,901    | 945     | 577       | 23        | 66,826   | 23      | 105       | 9,668     |
| 2821 PLASTIC MATERIALS-----             | 946        | 293      | 74      | 150       | 18        | ---      | 3       | 40        | ---       |
| 2822 SYNTHETIC RUBBER-----              | 67         | ---      | ---     | ---       | ---       | ---      | ---     | 67        | ---       |
| 2831 DRUGS-----                         | 305        | 96       | 12      | 49        | 90        | ---      | ---     | 7         | 54        |
| 2841 SOAP-----                          | 277        | 30       | 67      | 33        | ---       | ---      | 8       | 131       | ---       |
| 2891 PAINTS-----                        | 995        | 703      | 46      | 19        | 176       | ---      | 14      | 15        | 22        |
| 2861 GUM AND WOOD CHEMICALS-----        | 36         | ---      | 4       | 16        | ---       | ---      | ---     | 16        | ---       |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 58,651     | ---      | ---     | ---       | ---       | 58,651   | ---     | ---       | ---       |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 48         | ---      | ---     | ---       | ---       | ---      | ---     | 48        | ---       |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 65         | ---      | ---     | ---       | ---       | ---      | ---     | ---       | 65        |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 24,870     | 712      | 1,012   | 817       | 468       | 21,331   | 129     | 401       | ---       |
| 2911 GASOLINE-----                      | 25         | ---      | 10      | 7         | ---       | ---      | ---     | ---       | ---       |
| 2916 LUBRICATING OILS AND GREASES-----  | 16,173     | 3        | 1       | 86        | 16        | 9,924    | ---     | 6,141     | ---       |
| 2920 COKE, PETROLEUM COKE-----          | 1,002,144  | 17,535   | 210,165 | ---       | ---       | 754,319  | ---     | 20,125    | ---       |
| 2921 LIQUEFIED GASES-----               | 60         | ---      | ---     | ---       | ---       | ---      | ---     | ---       | ---       |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 30         | 20       | ---     | 10        | ---       | ---      | ---     | ---       | ---       |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 447        | 197      | 96      | 68        | 47        | ---      | 1       | 97        | 21        |
| 3111 LEATHER AND LEATHER PRODUCTS-----  | 24         | 9        | ---     | ---       | 15        | ---      | ---     | ---       | ---       |
| 3211 GLASS AND GLASS PRODUCTS-----      | 517        | 220      | 10      | 177       | 95        | ---      | ---     | 4         | 2         |
| 3291 STRUCTURAL CLAY PRODUCTS-----      | 587        | 156      | ---     | ---       | 431       | ---      | ---     | ---       | ---       |
| 3291 CUT STONE AND STONE PRODUCTS-----  | 873        | ---      | ---     | ---       | 842       | ---      | ---     | ---       | ---       |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 293        | 148      | ---     | 60        | 60        | 14       | ---     | 9         | ---       |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 22,473     | 7,660    | ---     | ---       | 263       | ---      | 14,550  | ---       | ---       |
| 3319 IRON, STEEL SHAPES, EXC SHEET----- | 439,350    | 377,794  | 265     | 404       | 59,947    | 710      | ---     | ---       | 230       |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 100,341    | 1,246    | 64,516  | 34,349    | 230       | ---      | ---     | ---       | ---       |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 7,999      | 2,228    | 41      | 33        | 5,264     | 19       | 2       | 11        | 1         |
| 3318 FERROALLOYS-----                   | 33,500     | 28,076   | ---     | ---       | 5,424     | ---      | ---     | ---       | ---       |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 6,342      | 4,509    | ---     | 64        | 422       | ---      | 1,306   | 41        | ---       |
| 3321 NONFERROUS METALS, NEC-----        | 1,142      | 989      | 87      | 36        | ---       | ---      | ---     | 30        | ---       |
| 3322 COPPER ALLOYS, UNWORKED-----       | 419        | 217      | 2       | 47        | 132       | ---      | ---     | 19        | 2         |
| 3323 LEAD AND ZINC, UNWORKED-----       | 10,617     | 4,639    | ---     | ---       | 5,943     | 410      | ---     | ---       | 17        |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 4,579      | 634      | 6       | 1         | 2         | 3,020    | ---     | 188       | ---       |
| 3411 FABRICATED METAL PRODUCTS-----     | 6,234      | 4,165    | 349     | 856       | 344       | 19       | 20      | 392       | 89        |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 13,430     | 7,622    | 1,112   | 2,012     | 2,107     | 48       | 89      | 350       | 76        |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 1,898      | 391      | 325     | 648       | 292       | 6        | 14      | 216       | 4         |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 3,433      | 1,449    | 518     | 931       | 360       | 40       | 2       | 133       | ---       |
| 3731 SHIPS AND BOATS-----               | 1          | ---      | ---     | ---       | 1         | ---      | ---     | ---       | ---       |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 7,749      | 7,150    | 32      | 103       | 62        | 103      | 4       | 90        | 245       |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 132        | 17       | 28      | 63        | 7         | ---      | ---     | 17        | ---       |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 1,051      | 417      | 152     | 190       | 144       | ---      | 24      | 119       | 3         |
| 4011 IRON AND STEEL SCRAP-----          | 1,176      | ---      | ---     | 1,176     | ---       | ---      | ---     | ---       | ---       |
| 4012 NONFERROUS METAL SCRAP-----        | 1,327      | ---      | 337     | 847       | ---       | ---      | 101     | 42        | ---       |
| 4112 COMMODITIES, NEC-----              | 605        | 302      | 2       | 5         | 207       | 18       | ---     | 6         | 65        |
| 9999 DEPARTMENT OF DEFENSE AND SCI----- | 72         | ---      | ---     | 72        | ---       | ---      | ---     | ---       | ---       |
| TON-MILES, FOREIGN,                     | 5,949,374. | ---      | ---     | ---       | ---       | ---      | ---     | ---       | ---       |

## DOMESTIC

(SHORT TONS)

| COMMODITY                               | TOTAL      | LAKEWISE  |           | INTERNAL |           | LOCAL   | THROUGH   |           |
|---|------------|-----------|-----------|----------|-----------|---------|-----------|-----------|
|   |            | RECEIPTS  | SHIPMENTS | RECEIPTS | SHIPMENTS |         | EASTBOUND | WESTBOUND |
|   |            |           |           |          |           |         |           |           |
| TOTAL-----                              | 12,443,115 | 5,196,261 | 2,389,962 | 597,062  | 878,805   | 145,243 | 902,405   | 2,333,377 |
| 0103 CORN-----                          | 68,636     | -----     | -----     | -----    | 64,449    | 4,187   | -----     | -----     |
| 0107 WHEAT-----                         | 41,225     | -----     | -----     | 10,161   | 31,064    | -----   | -----     | -----     |
| 0111 SOYBEANS-----                      | 16,212     | -----     | -----     | -----    | 16,212    | -----   | -----     | -----     |
| 0119 OILSEEDS, NEC-----                 | 1,259      | -----     | -----     | -----    | 1,259     | -----   | -----     | -----     |
| 1011 IRON ORE AND CONCENTRATES-----     | 3,833,891  | 3,833,891 | -----     | -----    | -----     | -----   | -----     | -----     |
| 1031 ALUMINUM ORES, CONCENTRATES-----   | 103,392    | 1,491     | -----     | -----    | -----     | -----   | 101,901   | -----     |
| 1061 MANGANESE ORES, CONCENTRATES-----  | 25,352     | 1,472     | -----     | 2,083    | -----     | -----   | 21,797    | -----     |
| 1091 NONFERROUS ORES, CONCENT, NEC----- | 9,520      | -----     | -----     | 3,974    | -----     | -----   | 5,546     | -----     |
| 1121 COAL AND LIGNITE-----              | 2,391,568  | -----     | 2,275,331 | 100,853  | 11,179    | -----   | 4,005     | -----     |
| 1411 LIMESTONE-----                     | 1,312,652  | 1,283,948 | -----     | 6,704    | -----     | -----   | -----     | 22,000    |
| 1421 SAND, GRAVEL, CRUSHED ROCK-----    | 1,376      | -----     | -----     | -----    | -----     | -----   | 1,376     | -----     |
| 1499 NONMETALLIC MINERALS, NEC-----     | 181,671    | 1,754     | -----     | 116,669  | 850       | -----   | 36,083    | 25,515    |
| 2014 YALLOW, ANIMAL FATS AND OILS-----  | 4,863      | -----     | -----     | -----    | -----     | -----   | -----     | 4,863     |
| 2042 PREPARED ANIMAL FEEDS-----         | 283,749    | -----     | -----     | -----    | 282,431   | 1,318   | -----     | -----     |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 49,002     | -----     | -----     | -----    | 49,002    | -----   | -----     | -----     |
| 2062 MOLASSES-----                      | 6,263      | -----     | -----     | 6,263    | -----     | -----   | -----     | -----     |

## CHICAGO, ILL., DISTRICT

19

CALUMET HARBOR AND RIVER, ILL. AND IND.  
(INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

| COMMODITY                          | TOTAL      | LAKEWISE |           | INTERNAL |           | LOCAL  | THROUGH    |            |
|------------------------------------|------------|----------|-----------|----------|-----------|--------|------------|------------|
|                                    |            | RECEIPTS | SHIPMENTS | RECEIPTS | SHIPMENTS |        | BASEBOARDS | DECKBOARDS |
| 2091 VEGETABLE OILS, MARG, SHORT   | 14,387     |          |           | 1,399    | 13,197    |        |            |            |
| 2421 LUMBER                        | 5,348      |          |           |          |           |        | 5,348      |            |
| 2631 PAPER AND PAPERBOARD          | 2,712      |          |           |          |           |        | 2,712      |            |
| 2810 SODIUM HYDROXIDE              | 1,200      |          |           |          |           |        | 1,200      |            |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS  | 7,689      | 7,689    |           |          |           |        |            |            |
| 2813 ALCOHOLS                      | 3,321      |          |           |          |           |        | 3,321      |            |
| 2817 BENZENE AND TOLUENE           | 46,975     |          |           |          |           |        |            | 46,975     |
| 2819 BASIC CHEMICALS AND PROD, NEC | 182,350    |          |           | 1,625    |           |        | 53,508     | 127,127    |
| 2871 NITROGENOUS CHEM FERTILIZERS  | 256,270    |          | 20,836    | 38,503   | 3,688     |        | 188,935    | 4,396      |
| 2873 PHOSPHATIC CHEM FERTILIZERS   | 30,165     |          |           | 16,637   |           |        | 13,528     |            |
| 2911 GASOLINE                      | 11,324     |          | 3,792     |          |           |        |            | 7,532      |
| 2912 JET FUEL                      | 8,501      |          |           |          |           |        |            | 8,501      |
| 2913 KEROSENE                      | 2,133      |          |           |          |           |        | 2,133      |            |
| 2914 DISTILLATE FUEL OIL           | 162,008    |          | 5,063     |          |           | 4,638  | 39,286     | 117,059    |
| 2915 RESIDUAL FUEL OIL             | 511,974    | 90,184   |           |          |           | 52,608 | 4,884      | 482,256    |
| 2916 LUBRICATING OILS AND GREASES  | 36,489     |          |           |          |           |        | 3,934      | 32,495     |
| 2917 NAPHTHA, PETROLEUM SOLVENTS   | 239,247    | 2,785    |           |          |           |        | 23,594     | 212,988    |
| 2918 ASPHALT, TAR, AND BITUMENS    | 35,125     |          |           |          |           |        |            | 35,125     |
| 2920 COKE, PETROLEUM COKE          | 699,163    | 10,081   | 81,688    | 171,138  | 33,139    | 64,735 | 247,400    | 96,682     |
| 2991 PETROLEUM AND COAL PROD, NEC  | 2,698      |          |           |          |           |        | 2,698      |            |
| 3291 STRUCTURAL CLAY PRODUCTS      | 6,811      |          |           |          |           |        | 6,811      |            |
| 3271 LIME                          | 11,601     |          |           | 1,421    |           |        | 10,180     |            |
| 3311 PIG IRON                      | 17,600     |          |           | 1,671    |           |        | 7,771      | 8,158      |
| 3312 SLAG                          | 76,015     |          |           |          | 3,987     |        | 8,588      | 63,558     |
| 3314 IRON AND STEEL PRIMARY FORMS  | 100,768    |          |           |          | 33,425    |        | 4,235      | 63,108     |
| 3315 IRON, STEEL SHAPES, EXC SHEET | 255,693    |          |           | 2,921    | 77,998    | 1,659  | 4,788      | 168,335    |
| 3316 IRON AND STEEL PLATES, SHEETS | 594,596    | 1,770    |           | 7,266    | 77,718    | 2,800  | 19,166     | 485,514    |
| 3317 IRON AND STEEL PIPE AND TUBE  | 19,399     |          |           | 1,893    | 6,795     |        | 3,279      | 7,432      |
| 3318 FERROALLOYS                   | 168,643    | 1,418    |           | 99,779   | 4,512     | 1,353  | 68,082     | 1,919      |
| 3319 IRON AND STEEL PRODUCTS, NEC  | 279,919    |          |           |          | 48,963    |        | 887        | 238,069    |
| 3323 LEAD AND ZINC, UNWORKED       | 1,978      |          |           | 1,978    |           |        |            |            |
| 3324 ALUMINUM AND ALLOYS, UNWORKED | 731        |          |           | 731      |           |        |            |            |
| 3411 FABRICATED METAL PRODUCTS     | 24,428     |          | 972       | 1,402    | 4,934     |        |            | 17,520     |
| 3511 MACHINERY, EXCEPT ELECTRICAL  | 5,632      |          |           |          | 2,319     |        |            | 3,313      |
| 4011 IRON AND STEEL SCRAP          | 286,835    |          | 2,500     |          | 111,210   | 11,753 | 19,933     | 141,439    |
| 4112 COMMODITIES, NEC              | 600        |          |           |          | 600       |        |            |            |
| TON-MILES, DOMESTIC                | 57,399,205 |          |           |          |           |        |            |            |
| TONS, ALL TRAFFIC                  | 10,415,499 |          |           |          |           |        |            |            |
| TON-MILES, ALL TRAFFIC             | 62,948,579 |          |           |          |           |        |            |            |

## PORT OF CHICAGO, ILL.

SECTION INCLUDED: CHICAGO HARBOR, CHICAGO RIVER, MAIN AND NORTH BRANCH, CHICAGO RIVER, SOUTH BRANCH, CHICAGO SANITARY AND SHIP CANAL, CALUMET-SAG CHANNEL AND LAKE CALUMET, ILL., CALUMET HARBOR AND RIVER, ILL. AND IND. CONTROLLING AND PROJECT DEPTHS: SEE CHICAGO HARBOR, CHICAGO RIVER, MAIN AND NORTH BRANCH, CHICAGO RIVER, SOUTH BRANCH, CHICAGO SANITARY AND SHIP CANAL, CALUMET-SAG CHANNEL AND LAKE CALUMET, ILL., CALUMET HARBOR AND RIVER, ILL. AND IND.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS       | PASSENGERS | YEAR | TONS       | PASSENGERS |
|------|------------|------------|------|------------|------------|
| 1971 | 47,430,340 | 484,228    | 1976 | 48,574,524 | 319,648    |
| 1972 | 46,838,259 | 488,400    | 1977 | 38,136,148 | 381,582    |
| 1973 | 47,381,242 | 368,140    | 1978 | 39,698,722 | 327,582    |
| 1974 | 45,885,379 | 380,811    | 1979 | 38,698,988 | 373,754    |
| 1975 | 42,589,058 | 347,032    | 1980 | 32,993,244 | 365,744    |

## FREIGHT TRAFFIC, 1980

## FOREIGN

(SHORT TONS)

| COMMODITY                        | TOTAL     | OVERSEAS |         | CANADIAN  |           |
|----------------------------------|-----------|----------|---------|-----------|-----------|
|                                  |           | IMPORTS  | EXPORTS | IMPORTS   | EXPORTS   |
| TOTAL                            | 4,352,627 | 661,650  | 837,063 | 1,272,082 | 1,981,032 |
| 0103 CORN                        | 738,812   |          | 169,303 |           | 569,509   |
| 0104 OATS                        | 409       |          | 242     |           | 163       |
| 0105 RICE                        | 13        | 13       |         |           |           |
| 0107 WHEAT                       | 86        |          | 86      |           |           |
| 0111 SOYBEANS                    | 133,889   |          | 113,594 |           | 20,295    |
| 0121 TOBACCO, LEAF               | 6,759     | 5,958    |         | 804       |           |
| 0129 FIELD CROPS, NEC            | 110       | 110      |         |           |           |
| 0141 FRESH AND FROZEN VEGETABLES | 16        | 16       |         |           |           |
| 0161 ANIMALS AND PRODUCTS, NEC   | 131       | 94       | 37      |           |           |
| 0191 MISCELLANEOUS FARM PRODUCTS | 17        | 17       |         |           |           |
| 0801 FOREST PRODUCTS, NEC        | 22        | 22       |         |           |           |
| 1011 IRON ORE AND CONCENTRATES   | 577,543   | 89,877   |         | 488,466   |           |
| 1051 ALUMINUM ORES, CONCENTRATES | 9         | 8        | 1       |           |           |
| 1121 COAL AND LIGNITE            | 7,435     |          |         |           | 7,435     |
| 1402 SAND, GRAVEL, CRUSHED ROCK  | 457       |          | 286     |           | 171       |
| 1451 CLAY                        | 206,842   | 205      | 138,746 |           | 67,891    |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

PORT OF CHICAGO, ILL.--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

FOREIGN--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL     | OVERSEAS |         | CANADIAN |         |
|---|-----------|----------|---------|----------|---------|
|   |           | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |
| 1492 SULPHUR, DRY-----                  | 2         | 2        | 2       |          |         |
| 1499 NONMETALLIC MINERALS, NEC-----     | 447,974   | 88       | 66      | 447,620  |         |
| 1911 ORDNANCE AND ACCESSORIES-----      | 29        | 10       | 19      |          |         |
| 2012 MEAT AND PRODUCTS, NEC-----        | 3         | 3        |         |          |         |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 43,867    |          | 43,867  |          |         |
| 2015 ANIMAL BY-PRODUCTS, NEC-----       | 314       |          | 238     |          | 76      |
| 2031 FISH AND SHELLFISH, PREPARED-----  | 12        | 12       |         |          |         |
| 2034 VEGETABLES AND PREP, NEC-----      | 410       | 230      | 136     | 1        | 43      |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 54        | 26       |         | 28       |         |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 15,153    |          | 14,878  |          | 283     |
| 2042 PREPARED ANIMAL FEEDS-----         | 6,039     | 71       | 5,888   |          | 80      |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 18,385    | 117      | 17,219  | 51       | 978     |
| 2081 ALCOHOLIC BEVERAGES-----           | 12,910    | 12,428   | 104     | 388      | 16      |
| 2091 VEGETABLE OILS, WARD, SHORT-----   | 1,981     | 49       | 1,785   |          | 127     |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 3,068     | 1,115    | 1,435   | 65       | 453     |
| 2211 BASIC TEXTILE PRODUCTS-----        | 388       | 73       | 220     | 43       | 52      |
| 2212 TEXTILE FIBERS, NEC-----           | 1,066     | 1,066    |         |          |         |
| 2311 APPAREL-----                       | 26        | 24       | 2       |          |         |
| 2411 LOGS-----                          | 2,216     |          | 2,216   |          |         |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 21        | 21       |         |          |         |
| 2491 WOOD MANUFACTURES, NEC-----        | 1,185     | 388      | 773     |          | 24      |
| 2511 FURNITURE AND FIXTURES-----        | 178       | 122      | 43      | 11       | 2       |
| 2611 PULP-----                          | 15        | 15       |         |          |         |
| 2631 PAPER AND PAPERBOARD-----          | 39,360    | 71       | 598     | 38,625   | 66      |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 148       | 12       | 100     | 1        | 35      |
| 2711 PRINTED MATTER-----                | 1,186     | 65       | 1,040   |          | 81      |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 11,951    |          |         | 11,951   |         |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 125,141   | 6,924    | 1,522   | 116,597  | 188     |
| 2821 PLASTIC MATERIALS-----             | 546       | 271      | 232     |          | 43      |
| 2822 SYNTHETIC RUBBER-----              | 67        |          |         |          | 67      |
| 2831 DRUGS-----                         | 305       | 184      | 61      | 51       | 7       |
| 2841 SOAP-----                          | 277       | 38       | 100     |          | 139     |
| 2851 PAINTS-----                        | 995       | 879      | 65      | 22       | 29      |
| 2861 GUM AND WOOD CHEMICALS-----        | 36        |          | 20      |          | 16      |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 4,200     |          |         |          | 4,200   |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 113,814   |          |         | 113,814  |         |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 48        |          |         |          | 48      |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 65        |          |         | 65       |         |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 34,708    | 1,180    | 1,829   | 31,109   | 530     |
| 2911 GASOLINE-----                      | 25        |          | 25      |          |         |
| 2914 LUBRICATING OILS AND GREASES-----  | 16,173    | 19       | 87      |          | 16,067  |
| 2920 COKE, PETROLEUM COKE-----          | 1,102,699 | 17,939   | 210,165 |          | 874,999 |
| 2921 LIQUEFIED GASES-----               | 60        |          |         |          |         |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 30        | 20       | 18      |          |         |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 447       | 244      | 124     | 21       | 58      |
| 3111 LEATHER AND LEATHER PRODUCTS-----  | 24        | 24       |         |          |         |
| 3211 GLASS AND GLASS PRODUCTS-----      | 517       | 315      | 196     | 2        | 4       |
| 3251 STRUCTURAL CLAY PRODUCTS-----      | 587       | 987      |         |          |         |
| 3281 CUT STONE AND STONE PRODUCTS-----  | 873       | 873      |         |          |         |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 293       | 208      | 60      | 16       | 9       |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 22,473    | 7,923    |         |          | 14,550  |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 439,350   | 437,741  | 669     | 940      |         |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 100,341   | 1,476    | 98,865  |          |         |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 7,599     | 7,492    | 74      | 20       | 13      |
| 3318 FERROALLOYS-----                   | 40,300    | 28,876   |         | 12,224   |         |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 6,342     | 4,931    | 64      |          | 1,347   |
| 3321 NONFERROUS METALS, NEC-----        | 1,142     | 989      | 123     |          | 30      |
| 3322 COPPER ALLOYS, UNWORKED-----       | 419       | 349      |         |          | 19      |
| 3323 LEAD AND ZINC, UNWORKED-----       | 10,817    | 10,182   |         | 2        |         |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 4,579     | 4,536    | 7       | 435      |         |
| 3411 FABRICATED METAL PRODUCTS-----     | 6,234     | 4,309    | 1,205   | 3,628    | 188     |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 13,430    | 9,729    | 3,124   | 138      | 439     |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 1,898     | 683      | 973     | 18       | 232     |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 3,433     | 1,809    | 1,449   | 40       | 135     |
| 3731 SHIPS AND BOATS-----               | 1         | 1        |         |          |         |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 7,749     | 7,212    | 135     | 348      | 54      |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 132       | 24       | 91      |          | 17      |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 1,051     | 561      | 342     | 5        | 143     |
| 4011 IRON AND STEEL SCRAP-----          | 1,176     |          | 1,176   |          |         |
| 4012 NONFERROUS METAL SCRAP-----        | 1,327     |          | 1,184   |          | 143     |
| 4112 COMMODITIES, NEC-----              | 605       | 509      | 7       | 83       | 6       |
| 9999 DEPARTMENT OF DEFENSE AND SCI----- | 72        |          | 72      |          |         |

## DOMESTIC

(SHORT TONS)

| COMMODITY                              | TOTAL      | COASTWISE |           | LAKEWISE  |           | INTERNAL   |           | LOCAL     |
|--|------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|
|  |            | RECEIPTS  | SHIPMENTS | RECEIPTS  | SHIPMENTS | RECEIPTS   | SHIPMENTS |           |
| TOTAL-----                             | 28,640,617 | 9,234     | 22,800    | 6,772,061 | 2,589,628 | 10,574,279 | 6,169,245 | 2,587,370 |
| 0103 CORN-----                         | 367,847    |           |           |           |           |            | 363,660   | 4,187     |
| 0107 WHEAT-----                        | 49,879     |           |           |           |           | 10,181     | 39,718    |           |
| 0111 SOYBEANS-----                     | 136,147    |           |           |           |           |            | 136,147   |           |
| 0119 OILSEEDS, NEC-----                | 1,259      |           |           |           |           |            | 1,259     |           |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 48         |           |           |           |           |            |           | 48        |
| 1011 IRON ORE AND CONCENTRATES-----    | 3,833,891  |           |           | 3,833,891 |           |            |           |           |
| 1051 ALUMINUM ORES, CONCENTRATES-----  | 1,491      |           |           | 1,491     |           |            |           |           |
| 1061 MANGANESE ORES, CONCENTRATES----- | 3,555      |           |           | 1,472     |           | 2,083      |           |           |

## CHICAGO, ILL., DISTRICT

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PORT OF CHICAGO, ILL.--CONTINUED

FREIGHT TRAFFIC, 1968--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL      | COASTWISE |           | LAKEWISE  |           | INTERNAL  |           | LOCAL     |
|---|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|   |            | RECEIPTS  | SHIPMENTS | RECEIPTS  | SHIPMENTS | RECEIPTS  | SHIPMENTS |           |
| 1091 NONFERROUS ORES, CONCENT, NEC----- | 14,488     | -----     | -----     | -----     | -----     | 14,488    | -----     | -----     |
| 1121 COAL AND LIGNITE-----              | 7,221,225  | -----     | -----     | 2,275,331 | -----     | 4,945,894 | 14,494    | -----     |
| 1411 LIMESTONE-----                     | 1,354,002  | -----     | -----     | 1,305,940 | -----     | 48,062    | -----     | -----     |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 3,865,379  | -----     | -----     | -----     | -----     | 1,192,824 | 784,573   | 1,968,082 |
| 1471 PHOSPHATE ROCK-----                | 6,378      | -----     | 6,378     | -----     | -----     | -----     | -----     | -----     |
| 1479 NATURAL FERTILIZER MATS, NEC-----  | 22,800     | -----     | 22,800    | -----     | -----     | -----     | -----     | -----     |
| 1492 SULPHUR, DRY-----                  | 1,350      | -----     | -----     | -----     | -----     | -----     | 1,350     | -----     |
| 1499 NONMETALLIC MINERALS, NEC-----     | 607,443    | -----     | -----     | 25,069    | -----     | 582,374   | 42,117    | 19,784    |
| 2014 YALLOW, ANIMAL FATS AND OILS-----  | 157,005    | -----     | -----     | -----     | -----     | 1,489     | 155,516   | -----     |
| 2042 PREPARED ANIMAL FEEDS-----         | 422,040    | -----     | -----     | -----     | -----     | -----     | 422,040   | -----     |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 64,044     | -----     | -----     | -----     | -----     | -----     | 64,044    | -----     |
| 2041 SUGAR-----                         | 209,308    | -----     | -----     | -----     | -----     | 209,308   | -----     | -----     |
| 2042 MOLASSES-----                      | 39,202     | -----     | -----     | -----     | -----     | 39,202    | -----     | -----     |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 10,740     | -----     | -----     | -----     | -----     | 4,141     | 14,660    | -----     |
| 2421 LUMBER-----                        | 17,459     | -----     | -----     | -----     | -----     | 17,459    | -----     | -----     |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 5,859      | -----     | -----     | -----     | -----     | 5,859     | -----     | -----     |
| 2611 PULP-----                          | 14,410     | -----     | -----     | -----     | -----     | 14,410    | -----     | -----     |
| 2631 PAPER AND PAPERBOARD-----          | 19,120     | -----     | -----     | -----     | -----     | 2,417     | 16,703    | -----     |
| 2810 SODIUM HYDROXIDE-----              | 292,781    | -----     | -----     | -----     | -----     | 291,610   | -----     | 1,171     |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 58,793     | -----     | -----     | 7,685     | -----     | 2,673     | 45,541    | 2,864     |
| 2813 ALCOHOLS-----                      | 265,459    | -----     | -----     | -----     | 4,647     | 260,545   | 267       | -----     |
| 2817 BENZENE AND TOLUENE-----           | 120,549    | -----     | -----     | 17,037    | -----     | 40,770    | 61,345    | 1,397     |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 1,163,320  | -----     | -----     | 301,876   | 53,598    | 718,492   | 80,239    | 1,159     |
| 2821 PLASTIC MATERIALS-----             | 2,864      | -----     | -----     | -----     | -----     | 2,864     | -----     | -----     |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 153,158    | -----     | -----     | -----     | 43,110    | 108,448   | 3,600     | -----     |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 19,647     | -----     | -----     | -----     | -----     | 19,647    | -----     | -----     |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 10,676     | 2,636     | -----     | -----     | -----     | 8,040     | -----     | -----     |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 10,600     | -----     | -----     | -----     | -----     | 2,806     | 19,782    | -----     |
| 2911 GASOLINE-----                      | 198,714    | -----     | -----     | 7,532     | 7,534     | 23,654    | 181,799   | 38,193    |
| 2912 JET FUEL-----                      | 54,413     | -----     | -----     | 8,501     | -----     | 10,500    | 39,412    | -----     |
| 2913 KEROSENE-----                      | 2,133      | -----     | -----     | -----     | 2,133     | -----     | -----     | -----     |
| 2914 DISTILLATE FUEL OIL-----           | 535,191    | -----     | -----     | 129,249   | 62,852    | 41,963    | 28,726    | 273,399   |
| 2915 RESIDUAL FUEL OIL-----             | 2,134,992  | -----     | -----     | 716,045   | 24,851    | 298,263   | 458,929   | 437,704   |
| 2916 LUBRICATING OILS AND GREASES-----  | 272,443    | -----     | -----     | -----     | 2,363     | 249,079   | -----     | 25,021    |
| 2917 NAPHTHA, PETROLEUM SOLVENTS-----   | 764,453    | -----     | -----     | 165,976   | 12,918    | 572,698   | 224,092   | 6,749     |
| 2918 ASPHALT, TAR, AND BITUMENS-----    | 159,943    | -----     | -----     | 43,737    | -----     | 74,654    | 31,753    | 7,817     |
| 2920 COKE, PETROLEUM COKE-----          | 516,791    | -----     | -----     | 10,001    | 81,688    | 178,577   | 141,590   | 64,735    |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 23,797     | -----     | -----     | -----     | -----     | 23,797    | -----     | -----     |
| 3241 BUILDING CEMENT-----               | 944,133    | -----     | -----     | 135,797   | -----     | 420,336   | -----     | -----     |
| 3251 STRUCTURAL CLAY PRODUCTS-----      | 1,449      | -----     | -----     | -----     | -----     | 1,449     | -----     | -----     |
| 3271 LIME-----                          | 149,396    | -----     | -----     | -----     | -----     | 149,396   | -----     | -----     |
| 3311 PIG IRON-----                      | 1,671      | -----     | -----     | -----     | -----     | 1,671     | -----     | -----     |
| 3312 SLAG-----                          | 29,653     | -----     | 8,961     | 8,961     | -----     | -----     | 12,192    | -----     |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 58,047     | -----     | -----     | -----     | -----     | 10,392    | 41,655    | -----     |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 157,514    | -----     | -----     | 1,308     | -----     | 59,521    | 94,834    | 1,859     |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 178,235    | -----     | -----     | 23,317    | -----     | 37,301    | 114,817   | 2,800     |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 43,285     | -----     | -----     | -----     | -----     | 36,490    | 6,795     | -----     |
| 3318 FERROALLOYS-----                   | 113,610    | -----     | -----     | 2,937     | -----     | 104,808   | 4,512     | 1,353     |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 102,007    | -----     | -----     | 17,200    | -----     | 29,711    | 55,094    | -----     |
| 3323 LEAD AND ZINC UNWORKED-----        | 47,008     | -----     | -----     | -----     | -----     | 3,297     | 1,400     | -----     |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 731        | -----     | -----     | -----     | -----     | 731       | -----     | -----     |
| 3411 FABRICATED METAL PRODUCTS-----     | 15,100     | -----     | -----     | -----     | 572       | 7,003     | 7,595     | -----     |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 5,644      | 280       | -----     | -----     | -----     | 3,082     | 2,482     | -----     |
| 3731 SHIPS AND BOATS-----               | 46         | -----     | -----     | -----     | -----     | -----     | 46        | -----     |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 500        | -----     | -----     | -----     | -----     | -----     | -----     | 500       |
| 4011 IRON AND STEEL SCRAP-----          | 525,446    | -----     | -----     | 6,239     | 10,921    | 5,271     | 489,735   | 13,280    |
| 4029 WASTE AND SCRAP, NEC-----          | 1,774,577  | -----     | -----     | -----     | -----     | -----     | 1,774,577 | -----     |
| 4112 COMMODITIES, NEC-----              | 600        | -----     | -----     | -----     | -----     | -----     | 600       | -----     |
| 4119 EMPTY CONTAINERS-----              | 760        | -----     | -----     | -----     | -----     | 760       | -----     | -----     |
| TONS, ALL TRAFFIC,-----                 | 32,993,244 | -----     | -----     | -----     | -----     | -----     | -----     | -----     |

## SUMMARY OF TRAFFIC, CHICAGO AREA, 1968

(SHORT TONS)

| LOCALITY                   | TOTAL      | FOREIGN  |         |           |           | DOMESTIC  |            |            |           |            |           | LOCAL     |
|----------------------------|------------|----------|---------|-----------|-----------|-----------|------------|------------|-----------|------------|-----------|-----------|
|                            |            | OVERSEAS |         | CANADIAN  |           | COASTWISE |            | LAKEWISE   |           | INTERNAL   |           |           |
|                            |            | IMPORTS  | EXPORTS | IMPORTS   | EXPORTS   | RE-CEIPTS | SHIP-MENTS | RECEIPTS   | SHIPMENTS | RECEIPTS   | SHIPMENTS |           |
| BUFFINGTON HARBOR, IND.--- | 1,339,698  | -----    | -----   | 39,311    | 106,827   | -----     | -----      | 1,075,679  | 1,491     | 107,020    | 8,378     | -----     |
| GARY HARBOR, IND.---       | 6,870,639  | -----    | -----   | 330,892   | 1,401     | -----     | -----      | 6,231,502  | 48,989    | 40,026     | 217,750   | 1         |
| INDIANA HARBOR IND.---     | 10,898,932 | 24,313   | -----   | 1,101,372 | 25,834    | -----     | -----      | 10,412,721 | 2,782,692 | 379,244    | 725,354   | 1,447,408 |
| PORT OF CHICAGO---         | 32,993,244 | 661,650  | 837,063 | 1,272,082 | 1,981,832 | 9,234     | 22,800     | 6,772,061  | 2,589,688 | 10,374,279 | 6,145,245 | 2,587,370 |
| TOTAL UNADJUSTED           | 58,102,513 | 685,963  | 837,063 | 2,743,657 | 1,719,894 | 9,234     | 22,800     | 24,492,253 | 5,422,780 | 11,101,369 | 7,116,729 | 3,954,771 |
| TOTAL, NET-----            | 56,957,653 | 685,963  | 837,063 | 2,743,657 | 1,719,894 | 9,234     | 22,800     | 23,347,393 | 4,297,920 | 11,101,369 | 7,116,729 | 5,899,631 |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

ILLINOIS RIVER, ILL. (INCLUDED IN THE  
ILLINOIS WATERWAY CONSOLIDATED)

SECTION INCLUDED: MOUTH OF ILLINOIS RIVER, GRAFTON, ILLINOIS, TO LOCKPORT, ILLINOIS, 291.0 MILES. CONTROLLING AND PROJECT DEPTHS: 9 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS       | YEAR | TONS       |
|------|------------|------|------------|
| 1971 | 33,669,954 | 1976 | 43,065,859 |
| 1972 | 39,183,957 | 1977 | 40,836,496 |
| 1973 | 40,122,307 | 1978 | 37,251,137 |
| 1974 | 41,229,726 | 1979 | 39,150,290 |
| 1975 | 43,599,825 | 1980 | 41,703,337 |

• PASSENGERS--64,312.

## FREIGHT TRAFFIC, 1980

## COASTWISE

(SHORT TONS)

| COMMODITY                          | TOTAL       | DOMESTIC COASTWISE |           |         |                   |
|------------------------------------|-------------|--------------------|-----------|---------|-------------------|
|                                    |             | RECEIPTS           | SHIPMENTS | UPBOUND | THROUGH DOWNBOUND |
| TOTAL                              | 86,572      | 53,435             | 1,303     | 9,034   | 22,800            |
| 0103 CORN                          | 1,303       |                    | 1,303     |         |                   |
| 1471 PHOSPHATE ROCK                | 56,380      | 56,002             |           | 6,378   |                   |
| 1479 NATURAL FERTILIZER MATS, NEC  | 22,800      |                    |           |         | 22,800            |
| 2679 FERTILIZER AND MATERIALS, NEC | 5,379       | 2,723              |           | 2,656   |                   |
| 3651 ELECTRICAL MACH AND EQUIP     | 710         | 710                |           |         |                   |
| TON-MILES, COASTWISE,              | 24,389,001. |                    |           |         |                   |

## INTERNAL

(SHORT TONS)

| COMMODITY                          | TOTAL      | UPBOUND | INBOUND UPBOUND | OUTBOUND UPBOUND | THROUGH UPBOUND | DOWNBOUND | INBOUND DOWNBOUND | OUTBOUND DOWNBOUND | THROUGH DOWNBOUND |
|------------------------------------|------------|---------|-----------------|------------------|-----------------|-----------|-------------------|--------------------|-------------------|
| TOTAL                              | 41,616,765 | 72,901  | 4,025,046       | 6,154,224        | 5,102,392       | 1,335,131 | 2,791,785         | 19,278,223         | 4,777,063         |
| 0103 CORN                          | 12,391,861 | 3,519   | 6,031           |                  |                 | 4,286     | 2,881             | 12,014,365         | 368,779           |
| 0106 SORGHUM GRAINS                | 2,955      |         |                 |                  |                 |           |                   | 2,955              |                   |
| 0107 WHEAT                         | 350,869    |         |                 | 10,161           |                 |           |                   | 380,990            | 39,718            |
| 0111 SOYBEANS                      | 2,768,698  | 1,300   | 3,912           |                  |                 |           |                   | 2,627,339          | 136,147           |
| 0119 OILSEEDS, NEC                 | 1,259      |         |                 |                  |                 |           |                   |                    | 1,259             |
| 0211 FRESH FISH, EXCEPT SHELLFISH  | 1,303      |         |                 |                  |                 |           |                   |                    |                   |
| 1051 ALUMINUM ORES, CONCENTRATES   | 101,901    |         |                 | 101,901          |                 |           |                   |                    |                   |
| 1061 MANGANESE ORES, CONCENTRATES  | 25,297     |         | 1,417           | 23,880           |                 |           |                   |                    |                   |
| 1091 NONFERROUS ORES, CONCENT, NEC | 25,210     |         | 4,179           | 19,946           |                 |           |                   | 1,085              |                   |
| 1121 COAL AND LIGNITE              | 5,804,849  |         | 252,930         | 4,766,850        | 168,555         | 588,613   |                   | 21,487             | 14,494            |
| 1311 CRUDE PETROLEUM               | 36,501     |         |                 |                  |                 |           |                   | 36,501             |                   |
| 1411 LIMESTONE                     | 6,114      |         |                 | 8,114            |                 |           |                   |                    |                   |
| 1442 SAND, GRAVEL, CRUSHED ROCK    | 2,014,968  |         | 5,870           | 1,142,705        | 51,497          | 4,283     | 786,573           | 24,040             |                   |
| 1471 PHOSPHATE ROCK                | 568,175    |         | 568,175         |                  |                 |           |                   |                    |                   |
| 1492 SULPHUR, DRY                  | 1,350      |         |                 |                  |                 |           |                   |                    | 1,350             |
| 1493 SULPHUR, LIQUID               | 5,140      |         |                 |                  |                 |           |                   | 5,140              |                   |
| 1499 NONMETALLIC MINERALS, NEC     | 855,551    |         | 255,460         | 556,574          |                 | 41,267    |                   |                    | 2,250             |
| 2014 TALLOW, ANIMAL FATS AND OILS  | 161,868    |         |                 | 1,429            |                 |           |                   |                    | 160,439           |
| 2041 WHEAT FLOUR AND SEMOLINA      | 1,350      |         |                 |                  |                 |           |                   | 1,350              |                   |
| 2042 PREPARED ANIMAL FEEDS         | 924,929    |         | 800             |                  |                 |           |                   | 493,399            | 430,730           |
| 2049 GRAIN MILL PRODUCTS, NEC      | 453,331    |         |                 |                  |                 |           |                   | 389,267            | 64,064            |
| 2061 SUGAR                         | 209,398    |         |                 |                  | 208,370         |           |                   |                    | 1,028             |
| 2062 MOLASSES                      | 57,686     |         | 18,484          | 5,989            |                 |           |                   |                    |                   |
| 2091 VEGETABLE OILS, MARG, SHORT   | 82,861     |         | 32,093          |                  | 4,141           |           |                   | 32,008             | 14,619            |
| 2411 LBS                           | 23,500     |         |                 |                  |                 |           |                   | 23,500             |                   |
| 2421 LUMBER                        | 22,807     |         |                 |                  | 22,807          |           |                   |                    |                   |
| 2431 VENEER, PLYWOOD, WORKED WOOD  | 5,859      |         |                 |                  | 5,859           |           |                   |                    |                   |
| 2611 PULP                          | 14,410     |         |                 |                  | 14,410          |           |                   |                    |                   |
| 2631 PAPER AND PAPERBOARD          | 21,832     |         |                 |                  | 5,129           |           |                   |                    | 16,703            |
| 2810 SODIUM HYDROXIDE              | 292,810    |         |                 |                  | 292,810         |           |                   |                    |                   |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS  | 57,765     |         | 7,682           |                  | 2,673           |           | 5,306             | 2,469              | 40,235            |
| 2813 ALCOHOLS                      | 309,095    |         | 4,586           | 7,962            | 252,583         | 41,842    |                   | 2,735              | 267               |
| 2817 BENZENE AND TOLUENE           | 132,053    |         |                 |                  | 40,770          |           | 1,360             |                    | 89,923            |
| 2818 SULPHURIC ACID                | 101,430    | 57,994  | 40,200          |                  |                 | 609       |                   | 2,627              |                   |
| 2819 BASIC CHEMICALS AND PROD, NEC | 1,721,084  | 2,304   | 908,388         | 11,862           | 698,590         | 6,583     | 6,450             | 11,480             | 75,425            |
| 2821 PLASTIC MATERIALS             | 2,866      |         |                 |                  | 2,866           |           |                   |                    |                   |
| 2871 NITROGENOUS CHEM FERTILIZERS  | 649,722    | 7,749   | 324,580         | 56,481           | 229,610         | 12,727    |                   | 6,970              | 7,996             |
| 2873 PHOSPHATIC CHEM FERTILIZERS   | 82,133     |         | 48,958          | 1,600            | 31,575          |           |                   |                    |                   |
| 2879 FERTILIZER AND MATERIALS, NEC | 334,113    |         | 322,208         |                  | 8,020           | 1,378     |                   | 2,915              |                   |
| 2891 MISCELLANEOUS CHEMICAL PROD   | 18,608     |         |                 |                  | 2,866           |           |                   |                    | 15,722            |
| 2911 GASOLINE                      | 1,181,590  |         | 396,782         |                  | 23,656          | 456,756   | 26,073            | 182,677            | 95,726            |
| 2912 JET FUEL                      | 73,235     |         | 25,688          |                  | 10,500          | 1,635     |                   |                    | 35,412            |
| 2914 DISTILLATE FUEL OIL           | 755,626    |         | 312,037         | 18,990           | 29,607          | 161,329   | 6,731             | 283,931            | 27,001            |
| 2915 RESIDUAL FUEL OIL             | 1,329,553  |         | 284,360         | 72,328           | 229,943         |           | 21,987            | 136,664            | 674,259           |
| 2916 LUBRICATING OILS AND GREASES  | 339,576    |         |                 |                  | 246,850         |           |                   | 69,431             | 32,495            |
| 2917 NAPHTHA, PETROLEUM SOLVENTS   | 670,431    |         | 11,788          |                  | 383,334         |           |                   |                    | 275,869           |
| 2918 ASPHALT, TAR, AND BITUMENS    | 239,556    |         | 123,680         |                  | 76,556          |           |                   | 2,457              | 36,843            |
| 2920 COKE, PETROLEUM COKE          | 1,167,717  |         | 14,846          | 56,977           | 363,880         | 58,674    | 3,991             | 483,768            | 273,681           |
| 2991 PETROLEUM AND COAL PROD, NEC  | 26,495     |         |                 |                  | 26,495          |           |                   |                    |                   |
| 3241 BUILDING CEMENT               | 477,328    |         | 48,992          |                  | 428,336         |           |                   |                    |                   |
| 3291 STRUCTURAL CLAY PRODUCTS      | 8,260      |         |                 |                  | 8,260           |           |                   |                    |                   |
| 3271 LIME                          | 169,519    |         |                 |                  | 159,576         | 9,943     |                   |                    |                   |
| 3311 PIG IRON                      | 17,600     |         |                 |                  | 9,442           |           | 1,115             |                    | 7,043             |

## CHICAGO, ILL., DISTRICT

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ILLINOIS RIVER, ILL. (INCLUDED IN THE  
ILLINOIS WATERWAY CONSOLIDATED)--CONTINUED

FREIGHT TRAFFIC, 1988--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL     | UPBOUND | INBOUND<br>UPBOUND | OUTBOUND<br>UPBOUND | THROUGH<br>UPBOUND | DOWNBOUND | INBOUND<br>DOWNBOUND | OUTBOUND<br>DOWNBOUND | THROUGH<br>DOWNBOUND |
|---|-----------|---------|--------------------|---------------------|--------------------|-----------|----------------------|-----------------------|----------------------|
| 3312 SLAG-----                          | 66,789    |         |                    |                     |                    |           | 1,289                |                       | 66,500               |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 236,193   |         | 6,605              |                     | 205,627            | 328       |                      | 183,798               | 184,763              |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 376,414   |         | 19,282             |                     | 64,309             | 863       | 19,697               | 33,171                | 246,812              |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 696,364   |         | 9,396              |                     | 56,427             |           | 17,490               | 31,899                | 562,096              |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 57,937    |         | 3,961              |                     | 39,748             |           | 800                  |                       | 13,427               |
| 3318 FERROALLOYS-----                   | 171,675   |         | 2,875              |                     | 164,800            |           |                      |                       | 4,612                |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 331,685   |         | 1,024              | 1,070               | 295,586            | 1,000     | 11,546               | 81,094                | 256,425              |
| 3323 LEAD AND ZINC, UNWORKED-----       | 6,793     |         |                    |                     | 3,297              |           |                      |                       | 1,466                |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 731       |         |                    |                     | 731                |           |                      |                       |                      |
| 3411 FABRICATED METAL PRODUCTS-----     | 47,608    |         | 14,262             |                     | 7,003              | 1,898     | 6,978                |                       | 18,647               |
| 3911 MACHINERY, EXCEPT ELECTRICAL-----  | 42,898    |         | 566                |                     | 3,062              |           | 1,600                | 28,199                | 4,915                |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 850       |         | 490                |                     |                    |           |                      |                       |                      |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 623       |         |                    |                     |                    |           |                      | 623                   |                      |
| 3731 SHIPS AND BOATS-----               | 46        |         |                    |                     |                    |           |                      |                       | 46                   |
| 4011 IRON AND STEEL SCRAP-----          | 663,688   |         | 22,921             | 1,257               | 15,526             |           | 94,243               | 10,649                | 530,692              |
| 4029 WASTE AND SCRAP, NEC-----          | 1,797,362 |         |                    |                     |                    |           | 1,739,174            | 22,785                | 35,403               |
| 4112 COMMODITIES, NEC-----              | 600       |         |                    |                     |                    |           |                      |                       | 600                  |
| 4119 EMPTY CONTAINERS-----              | 980       |         | 220                |                     | 760                |           |                      |                       |                      |
| TON-MILES, INTERNAL, 6,269,296,899.     |           |         |                    |                     |                    |           |                      |                       |                      |
| TONS, ALL TRAFFIC, 41,763,337.          |           |         |                    |                     |                    |           |                      |                       |                      |
| TON-MILES, ALL TRAFFIC, 6,293,689,900.  |           |         |                    |                     |                    |           |                      |                       |                      |

ILLINOIS WATERWAY, ILL. (CONSOLIDATED REPORT  
FOR ENTIRE WATERWAY)

SECTION INCLUDED: ILLINOIS RIVER, GRAFTON, ILL. TO LOCKPORT, ILL.; CHICAGO SANITARY AND SHIP CANAL (CHICAGO DRAINAGE CANAL), LOCKPORT, ILL. TO DAMEN AVE. IN CHICAGO; CHICAGO RIVER (SOUTH BRANCH), DAMEN AVENUE TO LAKE STREET; CALUMET-SAG CHANNEL, FROM ITS JUNCTION WITH THE CHICAGO SANITARY AND SHIP CANAL TO BLUE ISLAND; AND THE LITTLE CALUMET RIVER AND CALUMET RIVER TO TURNING BASIN NO. 5. CONTROLLING DEPTH: 9 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS       | PASSENGERS | YEAR      | TONS       | PASSENGERS |
|-----------|------------|------------|-----------|------------|------------|
| 1971----- | 38,324,867 | 7,818      | 1976----- | 46,652,608 | 111,820    |
| 1972----- | 43,970,391 | 29,704     | 1977----- | 44,916,298 | 110,960    |
| 1973----- | 44,510,478 | 137,239    | 1978----- | 41,609,086 | 87,630     |
| 1974----- | 45,301,607 | 112,268    | 1979----- | 39,339,385 | 66,490     |
| 1975----- | 47,242,397 | 165,860    | 1980----- | 45,926,948 | 65,612     |

FREIGHT TRAFFIC, 1980

COASTWISE AND LAKEWISE

(SHORT TONS)

| COMMODITY                                      | TOTAL     | DOMESTIC  |           |           |           |                      |
|--|-----------|-----------|-----------|-----------|-----------|----------------------|
|  |           | COASTWISE |           | LAKEWISE  |           | THROUGH<br>DOWNBOUND |
|  |           | RECEIPTS  | SHIPMENTS | RECEIPTS  | SHIPMENTS |                      |
| TOTAL-----                                     | 1,406,086 | 62,669    | 24,103    | 1,174,503 | 136,387   | 10,424               |
| 0103 CORN-----                                 | 1,303     |           | 1,303     |           |           |                      |
| 1471 PHOSPHATE ROCK-----                       | 56,380    | 56,380    |           |           |           |                      |
| 1479 NATURAL FERTILIZER MATS, NEC-----         | 22,000    |           | 22,000    |           |           |                      |
| 2813 ALCOHOLS-----                             | 4,647     |           |           |           | 4,647     |                      |
| 2819 BASIC CHEMICALS AND PROD, NEC-----        | 294,024   |           |           | 294,024   |           |                      |
| 2871 NITROGENOUS CHEM FERTILIZERS-----         | 22,282    |           |           |           | 22,282    |                      |
| 2879 FERTILIZER AND MATERIALS, NEC-----        | 5,379     |           | 5,379     |           |           |                      |
| 2911 GASOLINE-----                             | 11,276    |           |           | 7,532     | 3,744     |                      |
| 2912 JET FUEL-----                             | 8,501     |           |           | 8,501     |           |                      |
| 2913 KEROSENE-----                             | 2,133     |           |           |           | 2,133     |                      |
| 2914 DISTILLATE FUEL OIL-----                  | 186,298   |           |           | 129,249   | 57,049    |                      |
| 2915 RESIDUAL FUEL OIL-----                    | 699,133   |           |           | 683,919   | 15,214    | 9,163                |
| 2916 LUBRICATING OILS AND GREASES-----         | 2,363     |           |           |           | 2,363     |                      |
| 2917 NAPHTHA, PETROLEUM SOLVENTS-----          | 35,620    |           |           | 22,702    | 12,918    |                      |
| 2918 ASPHALT, TAR, AND PITCHES-----            | 43,737    |           |           | 43,737    |           |                      |
| 3318 FERROALLOYS-----                          | 1,919     |           |           | 1,919     |           |                      |
| 3911 MACHINERY, EXCEPT ELECTRICAL-----         | 200       | 200       |           |           |           |                      |
| 3611 ELECTRICAL MACH AND EQUIP-----            | 710       | 710       |           |           |           |                      |
| 4011 IRON AND STEEL SCRAP-----                 | 9,821     |           |           | 1,400     | 7,160     | 1,261                |
| TON-MILES, COASTWISE AND LAKEWISE, 38,871,788. |           |           |           |           |           |                      |

ILLINOIS WATERWAY, ILL. (CONSOLIDATED REPORT  
FOR ENTIRE WATERWAY)--CONTINUED

## FREIGHT TRAFFIC, 1980--CONTINUED

## INTERNAL

(SHORT TONS)

| COMMODITY                          | TOTAL         | UPBOUND   | INBOUND<br>UPBOUND | OUTBOUND<br>UPBOUND | THROUGH<br>UPBOUND | DOWNBOUND | INBOUND<br>DOWNBOUND | OUTBOUND<br>DOWNBOUND | THROUGH<br>DOWNBOUND |
|------------------------------------|---------------|-----------|--------------------|---------------------|--------------------|-----------|----------------------|-----------------------|----------------------|
| TOTAL                              | 44,118,876    | 6,959,830 | 7,141,671          | 1,454,311           | 2,081,934          | 4,280,192 | 182,466              | 19,516,814            | 2,582,208            |
| 0103 CORN                          | 12,396,048    | 3,519     | 6,031              | 4,187               |                    | 5,868     | 1,307                | 12,310,653            | 65,091               |
| 0106 SORGHUM GRAINS                | 2,959         |           |                    |                     |                    |           |                      | 2,955                 |                      |
| 0107 WHEAT                         | 350,869       |           |                    | 10,161              |                    |           |                      | 389,644               | 31,064               |
| 0111 SOYBEANS                      | 2,788,698     | 1,308     | 3,912              |                     |                    |           |                      | 2,749,889             | 17,681               |
| 0219 OILSEEDS, NEC                 | 1,259         |           |                    |                     |                    |           |                      |                       | 1,259                |
| 0911 FRESH FISH, EXCEPT SHELLFISH  | 81            | 33        |                    |                     |                    |           | 48                   |                       |                      |
| 1091 ALUMINUM ORES, CONCENTRATES   | 101,901       |           |                    | 101,901             |                    |           |                      |                       |                      |
| 1091 MANGANESE ORES, CONCENTRATES  | 25,297        |           | 1,417              | 23,880              |                    |           |                      |                       |                      |
| 1091 NONFERROUS ORES, CONCENT. NEC | 25,210        |           | 14,605             | 9,520               |                    |           |                      |                       |                      |
| 1121 COAL AND LIGNITE              | 5,804,849     | 4,766,850 | 312,477            |                     | 109,008            | 580,813   |                      | 1,085                 |                      |
| 1311 CRUDE PETROLEUM               | 36,501        |           |                    |                     |                    |           |                      | 24,722                | 11,179               |
| 1411 LIMESTONE                     | 8,114         |           |                    |                     | 8,114              |           |                      | 36,501                |                      |
| 1442 SAND, GRAVEL, CRUSHED ROCK    | 3,600,948     | 1,488,640 | 46,294             | 1,239,225           | 11,073             | 798,856   | 828                  | 24,040                |                      |
| 1471 PHOSPHATE ROCK                | 568,175       |           | 568,175            |                     |                    |           |                      |                       |                      |
| 1492 SULPHUR, DRY                  | 1,350         |           |                    |                     |                    |           |                      | 1,350                 |                      |
| 1493 SULPHUR, LIQUID               | 5,140         |           |                    |                     |                    |           |                      | 5,140                 |                      |
| 1499 NONMETALLIC MINERALS, NEC     | 875,337       | 1,008     | 550,498            | 15,783              | 261,534            | 21,575    | 22,687               |                       | 2,250                |
| 2014 TALLOW, ANIMAL FATS AND OILS  | 161,868       |           | 1,429              |                     |                    |           |                      | 74,686                | 85,773               |
| 2041 WHEAT FLOUR AND SEMOLINA      | 1,350         |           |                    |                     |                    |           |                      | 1,350                 |                      |
| 2042 PREPARED ANIMAL FEEDS         | 926,247       |           | 800                |                     |                    |           |                      | 632,668               | 292,779              |
| 2049 GRAIN MILL PRODUCTS, NEC      | 453,331       |           |                    |                     |                    |           |                      | 401,952               | 51,379               |
| 2061 SUGAR                         | 209,398       |           | 61,889             |                     | 146,481            |           |                      |                       | 1,028                |
| 2062 MOLASSES                      | 57,686        | 5,989     | 41,958             |                     | 9,739              |           |                      |                       |                      |
| 2091 VEGETABLE OILS, MARG, SHORT   | 82,861        |           | 32,093             |                     | 4,141              |           |                      | 33,430                | 13,197               |
| 2411 LOGS                          | 23,500        |           |                    |                     |                    |           |                      | 23,500                |                      |
| 2421 LUMBER                        | 22,807        |           | 14,825             |                     | 7,982              |           |                      |                       |                      |
| 2431 VENEER, PLYWOOD, WORKED WOOD  | 5,859         |           | 5,859              |                     |                    |           |                      |                       |                      |
| 2611 PULP                          | 14,481        |           | 3,930              |                     | 10,480             |           |                      |                       |                      |
| 2691 PAPER AND PAPERBOARD          | 21,832        |           |                    |                     | 5,129              |           |                      |                       | 16,703               |
| 2810 SODIUM HYDROXIDE              | 293,981       |           | 233,244            |                     | 60,737             |           |                      |                       |                      |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS  | 60,659        | 2,894     | 8,444              |                     | 1,311              | 5,306     |                      | 39,994                | 2,750                |
| 2813 ALCOHOLS                      | 309,095       | 7,962     | 250,106            |                     | 6,983              | 41,042    |                      | 3,082                 |                      |
| 2817 BENZENE AND TOLUENE           | 133,450       | 1,397     | 22,521             |                     | 18,249             | 1,368     |                      | 59,985                | 29,938               |
| 2818 SULPHURIC ACID                | 101,430       | 57,994    | 40,200             |                     |                    | 609       |                      | 2,627                 |                      |
| 2819 BASIC CHEMICALS AND PROD, NEC | 1,738,243     | 25,425    | 1,440,797          |                     | 166,181            | 18,939    |                      | 85,265                | 1,640                |
| 2821 PLASTIC MATERIALS             | 2,866         |           | 2,866              |                     |                    |           |                      |                       |                      |
| 2871 NITROGENOUS CHEM FERTILIZERS  | 649,722       | 16,382    | 387,884            | 47,848              | 170,306            | 12,727    |                      | 6,579                 | 7,906                |
| 2873 PHOSPHATIC CHEM FERTILIZERS   | 82,133        |           | 48,958             | 1,600               | 31,575             |           |                      |                       |                      |
| 2879 FERTILIZER AND MATERIALS, NEC | 334,113       |           | 330,228            |                     |                    | 1,370     |                      | 2,515                 |                      |
| 2881 MISCELLANEOUS CHEMICAL PROD   | 18,608        |           | 2,886              |                     |                    |           |                      | 15,722                |                      |
| 2911 GASOLINE                      | 1,219,783     | 34,301    | 420,358            |                     |                    | 486,721   |                      | 278,403               |                      |
| 2912 JET FUEL                      | 73,235        |           | 36,188             |                     |                    | 1,635     |                      | 35,412                |                      |
| 2914 DISTILLATE FUEL OIL           | 1,029,025     | 286,596   | 339,924            | 2,634               |                    | 181,585   | 7,354                | 239,932               |                      |
| 2915 RESIDUAL FUEL OIL             | 1,787,237     | 250,178   | 443,019            | 9,904               |                    | 224,257   | 4,968                | 797,594               | 37,317               |
| 2916 LUBRICATING OILS AND GREASES  | 364,597       | 13,206    | 245,079            |                     | 1,571              | 11,815    |                      | 60,431                | 32,495               |
| 2917 NAPHTHA, PETROLEUM SOLVENTS   | 477,705       | 6,769     | 339,379            |                     | 55,743             |           |                      | 191,985               | 83,984               |
| 2918 ASPHALT, TAR, AND BITUMENS    | 247,373       | 7,817     | 208,256            |                     |                    |           |                      | 34,210                | 5,090                |
| 2920 COKE, PETROLEUM COKE          | 1,232,452     |           | 17,574             |                     |                    |           |                      | 539,960               | 137,489              |
| 2991 PETROLEUM AND COAL PROD, NEC  | 26,495        |           | 23,797             | 121,712             | 361,252            | 50,474    | 3,991                |                       |                      |
| 3241 BUILDING CEMENT               | 477,328       |           | 477,328            |                     |                    |           |                      |                       |                      |
| 3291 STRUCTURAL CLAY PRODUCTS      | 8,280         |           | 1,449              |                     | 6,811              |           |                      |                       |                      |
| 3271 LIME                          | 169,519       |           | 1,436              |                     | 158,140            | 9,943     |                      |                       |                      |
| 3311 PIG IRON                      | 17,600        |           |                    |                     | 9,442              |           | 1,115                |                       | 7,043                |
| 3312 SLAG                          | 66,789        |           |                    |                     |                    |           | 1,209                |                       | 65,580               |
| 3314 IRON AND STEEL PRIMARY FORMS  | 234,183       |           | 12,572             |                     | 12,740             | 320       |                      | 112,018               | 96,533               |
| 3315 IRON, STEEL SHAPES, EXC SHEET | 379,214       |           | 39,663             |                     | 43,848             | 863       | 15,857               | 42,352                | 236,631              |
| 3316 IRON AND STEEL PLATES, SHEETS | 696,364       |           | 21,249             |                     | 43,554             |           | 17,450               | 69,100                | 544,991              |
| 3317 IRON AND STEEL PIPE AND TUBE  | 57,557        |           | 31,467             |                     | 11,863             | 800       |                      |                       | 13,427               |
| 3318 FERROALLOYS                   | 172,828       |           | 2,073              |                     | 164,890            | 1,353     |                      |                       | 4,512                |
| 3319 IRON AND STEEL PRODUCTS, NEC  | 331,685       | 1,070     | 9,054              |                     | 21,498             | 1,008     | 11,540               | 35,690                | 251,833              |
| 3323 LEAD AND ZINC, UNWORKED       | 4,705         |           | 1,319              |                     | 1,978              |           |                      |                       | 1,408                |
| 3324 ALUMINUM AND ALLOYS, UNWORKED | 731           |           |                    |                     | 731                |           |                      |                       |                      |
| 3411 FABRICATED METAL PRODUCTS     | 47,408        |           | 15,974             |                     | 5,291              | 1,098     | 6,978                | 1,661                 | 16,466               |
| 3511 MACHINERY, EXCEPT ELECTRICAL  | 42,299        |           | 986                |                     | 2,682              |           | 1,600                | 32,218                | 4,832                |
| 3611 ELECTRICAL MACH AND EQUIP     | 850           |           | 850                |                     |                    |           |                      |                       |                      |
| 3711 MOTOR VEHICLES, PARTS, EQUIP  | 623           |           |                    |                     |                    |           |                      | 623                   |                      |
| 3731 SHIPS AND BOATS               | 46            |           |                    |                     |                    |           |                      | 46                    |                      |
| 3791 MISC TRANSPORTATION EQUIPMENT | 500           | 500       |                    |                     |                    |           |                      |                       |                      |
| 4011 IRON AND STEEL SCRAP          | 695,368       |           | 25,571             | 1,257               | 12,876             | 10,854    | 83,389               | 151,011               | 410,410              |
| 4029 WASTE AND SCRAP, NEC          | 1,797,362     |           |                    |                     |                    | 1,739,174 |                      | 98,188                |                      |
| 4112 COMMODITIES, NEC              | 600           |           |                    |                     |                    |           |                      |                       | 600                  |
| 4119 EMPTY CONTAINERS              | 980           |           | 980                |                     |                    |           |                      |                       |                      |
| TON-MILES, INTERNAL                | 8,739,833,656 |           |                    |                     |                    |           |                      |                       |                      |
| TONS, ALL TRAFFIC                  | 45,526,982    |           |                    |                     |                    |           |                      |                       |                      |
| TON-MILES, ALL TRAFFIC             | 8,798,705,441 |           |                    |                     |                    |           |                      |                       |                      |

## CHICAGO, ILL., DISTRICT

25

INDIANA HARBOR, IND.

SECTION INCLUDED: OUTER HARBOR AND CANAL ENTRANCE CHANNEL TO THE FIRST E. J. & E. R. R. BRIDGE; INDIANA HARBOR CANAL, INCLUDING THE CALUMET RIVER BRANCH TO 141ST STREET BRIDGE AND THE LAKE GEORGE BRANCH TO 0.2 MILES PAST INDIANAPOLIS BLVD., CONTROLLING AND PROJECT DEPTHS: 29 FEET IN LAKE APPROACH CHANNEL, 20 FEET IN HARBOR BASIN, 27 FEET IN CANAL ENTRANCE CHANNEL; 22 FEET IN CANAL TO DICKEY PLACE BRIDGE, 22 FEET IN REMAINDER OF CANAL TO 0.2 MILES PAST INDIANAPOLIS BLVD., ON LAKE GEORGE BRANCH AND 141ST STREET OR CALUMET RIVER BRANCH.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS       | YEAR      | TONS       |
|-----------|------------|-----------|------------|
| 1971----- | 15,914,661 | 1976----- | 19,490,752 |
| 1972----- | 17,610,662 | 1977----- | 19,958,303 |
| 1973----- | 17,897,777 | 1978----- | 20,715,602 |
| 1974----- | 17,164,765 | 1979----- | 18,418,640 |
| 1975----- | 17,126,066 | 1980----- | 16,898,932 |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL      | FOREIGN  |           |         | DOMESTIC   |           |          |           | LOCAL     |
|---|------------|----------|-----------|---------|------------|-----------|----------|-----------|-----------|
|   |            | OVERSEAS | CANADIAN  |         | LAKEWISE   |           | INTERNAL |           |           |
|   |            | IMPORTS  | IMPORTS   | EXPORTS | RECEIPTS   | SHIPMENTS | RECEIPTS | SHIPMENTS |           |
| TOTAL-----                              | 10,898,932 | 24,313   | 1,101,372 | 25,634  | 10,412,721 | 2,782,692 | 379,244  | 729,356   | 1,447,400 |
| 0911 FRESH FISH, EXCEPT SHELLFISH----   | 6          |          |           |         |            |           |          |           |           |
| 1011 IRON ORE AND CONCENTRATES-----     | 10,569,324 |          | 1,019,066 |         | 8,126,529  |           |          |           | 1,422,929 |
| 1061 MANGANESE ORES, CONCENTRATES-----  | 9,834      |          |           |         |            |           | 9,834    |           |           |
| 1091 NONFERROUS ORES, CONCENT, NEC----- | 1,372      |          |           |         |            |           | 1,372    |           |           |
| 1121 COAL AND LIGNITE-----              | 4,005      |          |           |         |            |           | 4,005    |           |           |
| 1411 LIMESTONE-----                     | 1,919,174  |          |           |         | 1,919,174  |           |          |           |           |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 1,376      |          |           |         |            |           | 1,376    |           |           |
| 1494 GYPSUM, CRUDE AND PLASTERS-----    | 71,624     |          |           |         | 71,624     |           |          |           |           |
| 1499 NONMETALLIC MINERALS, NEC-----     | 29,120     |          |           |         |            |           | 27,720   | 1,400     |           |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 12,787     |          | 5,767     |         | 7,020      |           |          |           |           |
| 2817 BENZENE AND TOLUENE-----           | 29,938     |          |           |         |            |           |          | 29,938    |           |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 70,193     |          | 68,593    |         |            |           |          | 1,640     |           |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 4,396      |          |           |         |            |           |          | 4,396     |           |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 650        |          | 650       |         |            |           |          |           |           |
| 2911 GASOLINE-----                      | 982,575    |          |           |         | 3,308      | 975,704   |          |           | 3,563     |
| 2912 JET FUEL-----                      | 47,955     |          |           |         |            | 47,955    |          |           |           |
| 2913 KEROSENE-----                      | 2,133      |          |           |         | 2,133      |           |          |           |           |
| 2914 DISTILLATE FUEL OIL-----           | 751,687    |          |           |         | 43,075     | 699,981   | 2,634    | 5,004     | 983       |
| 2915 RESIDUAL FUEL OIL-----             | 928,778    |          |           |         | 181,749    | 784,396   |          | 37,317    | 5,316     |
| 2916 LUBRICATING OILS AND GREASES-----  | 36,429     |          |           |         | 2,363      |           | 1,571    | 32,495    |           |
| 2917 NAPHTHA, PETROLEUM SOLVENTS-----   | 206,725    |          |           |         | 12,910     | 133,454   | 10,636   | 49,717    |           |
| 2918 ASPHALT, TAR, AND PITCHES-----     | 179,441    |          |           |         |            | 171,715   |          | 5,690     | 2,636     |
| 2920 COKE, PETROLEUM COKE-----          | 384,960    |          |           |         | 20,322     | 31,835    | 237,938  | 94,885    |           |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 2,698      |          |           |         |            |           | 2,698    |           |           |
| 3251 STRUCTURAL CLAY PRODUCTS-----      | 6,811      |          |           |         |            |           | 6,811    |           |           |
| 3271 LIME-----                          | 10,186     |          |           |         |            |           | 10,186   |           |           |
| 3312 SLAG-----                          | 12,992     |          |           |         | 12,992     |           |          |           |           |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 73,321     |          |           | 13,862  |            | 8,053     | 1,363    | 50,023    |           |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 72,679     |          |           |         |            | 3,608     | 4,788    | 44,291    |           |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 190,509    |          |           | 11,952  |            | 2,389     | 12,940   | 163,228   |           |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 5,015      |          |           |         |            |           | 3,279    | 1,736     |           |
| 3318 FERROALLOYS-----                   | 59,997     | 24,254   | 6,536     |         |            |           | 29,207   |           |           |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 99,074     |          |           |         |            |           | 887      | 98,187    |           |
| 3411 FABRICATED METAL PRODUCTS-----     | 5,659      |          |           |         |            |           |          | 5,659     |           |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 59         | 59       |           |         |            |           |          |           |           |
| 4011 IRON AND STEEL SCRAP-----          | 115,656    |          |           |         | 9,514      | 3,600     | 10,005   | 86,370    | 11,967    |

## BURNS WATERWAY HARBOR, IND.

SECTION INCLUDED: ENTRANCE CHANNEL, OUTER HARBOR, AND TWO HARBOR ARMS, CONTROLLING AND PROJECT DEPTHS: 30 FEET IN ENTRANCE CHANNEL, 28 FEET IN OUTER HARBOR, AND 27 FEET IN THE EAST AND WEST HARBOR ARMS.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS      |
|-----------|-----------|-----------|-----------|
| 1971----- | 3,413,117 | 1976----- | 5,512,721 |
| 1972----- | 4,759,827 | 1977----- | 4,569,677 |
| 1973----- | 5,520,080 | 1978----- | 7,306,481 |
| 1974----- | 6,053,763 | 1979----- | 8,077,847 |
| 1975----- | 6,092,656 | 1980----- | 6,462,820 |

## FREIGHT TRAFFIC, 1980

FOREIGN

(SHORT TONS)

| COMMODITY                             | TOTAL   | OVERSEAS |         | CANADIAN |         |
|---------------------------------------|---------|----------|---------|----------|---------|
|                                       |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |
| TOTAL-----                            | 518,188 | 131,354  | 88,678  | 290,114  | 82      |
| 0121 TOBACCO, LEAF-----               | 12      |          | 12      |          |         |
| 0161 ANIMALS AND PRODUCTS, NEC-----   | 138     |          | 46      |          |         |
| 0191 MISCELLANEOUS FARM PRODUCTS----- | 6       |          | 6       |          |         |
| 0861 FOREST PRODUCTS, NEC-----        | 7       |          | 6       | 1        |         |



## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

BURNS WATERWAY HARBOR, IND.--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

FOREIGN--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL   | OVERSEAS |         | CANADIAN |         |
|---|---------|----------|---------|----------|---------|
|   |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |
| 1011 IRON ORE AND CONCENTRATES-----     | 309,329 | 62,197   | -----   | 247,132  | -----   |
| 1499 NONMETALLIC MINERALS, NEC-----     | 24,295  | -----    | -----   | 24,295   | -----   |
| 2015 ANIMAL BY-PRODUCTS, NEC-----       | 611     | -----    | 611     | -----    | -----   |
| 2031 FISH AND SHELLFISH, PREPARED-----  | 10      | 10       | -----   | -----    | -----   |
| 2034 VEGETABLES AND PREP, NEC-----      | 32      | 18       | 14      | -----    | -----   |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 89      | 3        | 86      | -----    | -----   |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 6,5     | -----    | 615     | -----    | -----   |
| 2042 PREPARED ANIMAL FEEDS-----         | 23      | -----    | 23      | -----    | -----   |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 16,242  | 5        | 16,237  | -----    | -----   |
| 2081 ALCOHOLIC BEVERAGES-----           | 303     | 303      | -----   | -----    | -----   |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 19      | 19       | -----   | -----    | -----   |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 2,293   | 360      | 1,933   | -----    | -----   |
| 2211 BASIC TEXTILE PRODUCTS-----        | 36      | 35       | 1       | -----    | -----   |
| 2311 APPAREL-----                       | 1       | 1        | -----   | -----    | -----   |
| 2411 LOGS-----                          | 2,799   | -----    | 2,799   | -----    | -----   |
| 2421 LUMBER-----                        | 284     | 107      | 177     | -----    | -----   |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 23      | 23       | -----   | -----    | -----   |
| 2491 WOOD MANUFACTURES, NEC-----        | 1       | 1        | -----   | -----    | -----   |
| 2511 FURNITURE AND FIXTURES-----        | 25      | 21       | 4       | -----    | -----   |
| 2631 PAPER AND PAPERBOARD-----          | 3,758   | 3,758    | -----   | -----    | -----   |
| 2711 PRINTED MATTER-----                | 2       | 161      | 1       | -----    | -----   |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 280     | 6        | 119     | -----    | -----   |
| 2821 PLASTIC MATERIALS-----             | 18      | 72       | 12      | -----    | -----   |
| 2831 DRUGS-----                         | 72      | -----    | -----   | -----    | -----   |
| 2841 SOAP-----                          | 46      | 46       | -----   | -----    | -----   |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 79      | -----    | 79      | -----    | -----   |
| 2916 LUBRICATING OILS AND GREASES-----  | 1       | 1        | -----   | -----    | -----   |
| 2918 ASPHALT, TAR, AND PITCHES-----     | 103     | -----    | 103     | -----    | -----   |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 13      | 13       | -----   | -----    | -----   |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 24      | 18       | 6       | -----    | -----   |
| 3211 GLASS AND GLASS PRODUCTS-----      | 2,058   | 1,990    | -----   | 468      | -----   |
| 3241 BUILDING CEMENT-----               | 6       | -----    | 6       | -----    | -----   |
| 3251 STRUCTURAL CLAY PRODUCTS-----      | 20      | -----    | -----   | -----    | -----   |
| 3281 CUT STONE AND STONE PRODUCTS-----  | 38      | 38       | -----   | -----    | -----   |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 4       | 4        | -----   | -----    | -----   |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 5,028   | 548      | 4,480   | -----    | -----   |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 46,848  | 46,848   | 788     | -----    | -----   |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 44,675  | 362      | 44,313  | -----    | -----   |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 4,554   | 4,554    | -----   | -----    | -----   |
| 3318 FERROALLOYS-----                   | 31,338  | 5,144    | -----   | 26,194   | -----   |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 986     | 986      | -----   | -----    | -----   |
| 3321 NONFERROUS METALS, NEC-----        | 246     | 245      | 3       | -----    | -----   |
| 3322 COPPER ALLOYS, UNWORKED-----       | 73      | 73       | -----   | -----    | -----   |
| 3323 LEAD AND ZINC, UNWORKED-----       | 2,315   | 662      | 1,653   | -----    | -----   |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 183     | 183      | -----   | -----    | -----   |
| 3411 FABRICATED METAL PRODUCTS-----     | 870     | 790      | 120     | -----    | -----   |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 2,978   | 2,865    | 804     | 15       | 82      |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 77      | 30       | 47      | -----    | -----   |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 607     | 527      | 80      | -----    | -----   |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 1       | -----    | 1       | -----    | -----   |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 7       | 6        | 1       | -----    | -----   |
| 4011 IRON AND STEEL SCRAP-----          | 13,393  | -----    | 13,353  | -----    | -----   |
| 4012 NONFERROUS METAL SCRAP-----        | 113     | -----    | 113     | -----    | -----   |
| 4112 COMMODITIES, NEC-----              | 221     | 221      | -----   | -----    | -----   |

## DOMESTIC

(SHORT TONS)

| COMMODITY                               | TOTAL      | LAKEWISE  |           | INTERNAL |           | LOCAL |
|---|------------|-----------|-----------|----------|-----------|-------|
|   |            | RECEIPTS  | SHIPMENTS | RECEIPTS | SHIPMENTS |       |
| TOTAL-----                              | 5,943,832  | 4,914,766 | 359,032   | 222,249  | 447,774   | 9     |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 9          | -----     | -----     | -----    | -----     | 9     |
| 1011 IRON ORE AND CONCENTRATES-----     | 4,450,880  | 4,450,880 | -----     | -----    | -----     | ----- |
| 1121 COAL AND LIGNITE-----              | 8,894      | -----     | 8,894     | -----    | -----     | ----- |
| 1411 LIMESTONE-----                     | 455,114    | 444,114   | 11,000    | -----    | -----     | ----- |
| 1499 NONMETALLIC MINERALS, NEC-----     | 3,244      | -----     | -----     | 3,244    | -----     | ----- |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 4,863      | -----     | -----     | -----    | 4,863     | ----- |
| 2421 LUMBER-----                        | 5,348      | -----     | -----     | 5,348    | -----     | ----- |
| 2631 PAPER AND PAPERBOARD-----          | 2,712      | -----     | -----     | 2,712    | -----     | ----- |
| 2810 SODIUM HYDROXIDE-----              | 1,200      | -----     | -----     | 1,200    | -----     | ----- |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 169,447    | 5,424     | 17,370    | 166,453  | -----     | ----- |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 13,528     | -----     | -----     | 13,528   | -----     | ----- |
| 2914 DISTILLATE FUEL OIL-----           | 634        | -----     | 634       | -----    | -----     | ----- |
| 2920 COKE, PETROLEUM COKE-----          | 24,381     | -----     | 20,322    | 2,862    | 1,217     | ----- |
| 3311 PIG IRON-----                      | 14,816     | -----     | 7,771     | 7,043    | -----     | ----- |
| 3312 SLAG-----                          | 366,159    | 10,750    | 388,812   | -----    | 34,597    | ----- |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 7,788      | -----     | -----     | 2,872    | 4,916     | ----- |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 66,118     | 3,600     | -----     | -----    | 62,518    | ----- |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 235,250    | -----     | -----     | 4,572    | 230,678   | ----- |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 1,187      | -----     | -----     | -----    | 1,187     | ----- |
| 3318 FERROALLOYS-----                   | 10,000     | -----     | -----     | 10,000   | -----     | ----- |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 59,498     | -----     | -----     | -----    | 59,498    | ----- |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 360        | -----     | -----     | -----    | 360       | ----- |
| 4011 IRON AND STEEL SCRAP-----          | 22,396     | -----     | -----     | 1,507    | 20,889    | ----- |
| TONS, ALL TRAFFIC,-----                 | 6,462,020. | -----     | -----     | -----    | -----     | ----- |

## OTHER HARBORS AND WATERWAYS

| HARBOR OR WATERWAY                              | COMMODITY                          | TONS      | PASSENGERS |
|---|------------------------------------|-----------|------------|
| PROJECT   |                                    |           |            |
| ALGOMA HARBOR, WIS.                             | 0011 FRESH FISH, EXCEPT SHELLFISH  | 107       |            |
| DETROIT HARBOR, WIS.                            | 0011 FRESH FISH, EXCEPT SHELLFISH  | 192       |            |
|   | 2042 PREPARED ANIMAL FEEDS         | 270       |            |
|   | 2099 MISCELLANEOUS FOOD PRODUCTS   | 104       |            |
|   | 2414 TIMBER, POSTS, POLES, PILING  | 330       |            |
|   | 2910 ASPHALT, TAR, AND BITUMENS    | 156       |            |
|   | 3911 MACHINERY, EXCEPT ELECTRICAL  | 197       |            |
|   | 4112 COMMODITIES, NEC              | 2,200     |            |
|   | TOTAL                              | 3,969     | 161,609    |
| KENOSHA HARBOR, WIS.                            | 0141 FRESH AND FROZEN VEGETABLES   | 60        |            |
|   | 0141 ANIMALS AND PRODUCTS, NEC     | 2,801     |            |
|   | 0011 FRESH FISH, EXCEPT SHELLFISH  | 239       |            |
|   | 0012 SHELLFISH, EXCEPT PREPARED    | 4         |            |
|   | 2011 MEAT, FRESH, CHILLED, FROZEN  | 34,056    |            |
|   | 2039 PREP FRUIT AND VEG JUICE, NEC | 144       |            |
|   | 2041 WHEAT FLOUR AND SEMOLINA      | 2,116     |            |
|   | 2049 GRAIN MILL PRODUCTS, NEC      | 7,209     |            |
|   | 2081 ALCOHOLIC BEVERAGES           | 8         |            |
|   | 2099 MISCELLANEOUS FOOD PRODUCTS   | 310       |            |
|   | 2211 BASIC TEXTILE PRODUCTS        | 349       |            |
|   | 2421 LUMBER                        | 1,393     |            |
|   | 2819 BASIC CHEMICALS AND PROD, NEC | 136       |            |
|   | 2831 DRUGS                         | 63        |            |
|   | 3318 FERROALLOYS                   | 298       |            |
|   | 3324 ALUMINUM AND ALLOYS, UNWORKED | 3         |            |
|   | 3411 FABRICATED METAL PRODUCTS     | 2         |            |
|   | 3911 MACHINERY, EXCEPT ELECTRICAL  | 4,080     |            |
|   | 3931 SHIPS AND BOATS               | 20        |            |
|   | 4112 COMMODITIES, NEC              | 3         |            |
|   | TOTAL                              | 53,441    |            |
| MENOMINEE HARBOR AND RIVER, MICH. AND WIS.      | 0011 FRESH FISH, EXCEPT SHELLFISH  | 291       |            |
|   | 1121 COAL AND LIGNITE              | 76,902    |            |
|   | 1411 LIMESTONE                     | 13,431    |            |
|   | 1442 SAND, GRAVEL, CRUSHED ROCK    | 13,543    |            |
|   | 1499 NONMETALLIC MINERALS, NEC     | 27,792    |            |
|   | 2611 PULP                          | 1,972     |            |
|   | 3312 SLAG                          | 9,300     |            |
|   | TOTAL                              | 143,151   |            |
| MICHIGAN CITY HARBOR, IND.                      | 0011 FRESH FISH, EXCEPT SHELLFISH  | 91        |            |
| OCONTO HARBOR, WIS.                             | 0011 FRESH FISH, EXCEPT SHELLFISH  | 99        |            |
| PENSAUKEE HARBOR, WIS.                          | 0011 FRESH FISH, EXCEPT SHELLFISH  | 1,295     |            |
| RACINE HARBOR, WIS.                             | 0011 FRESH FISH, EXCEPT SHELLFISH  | 90        |            |
|   | 1499 NONMETALLIC MINERALS, NEC     | 11,405    |            |
|   | 2011 GASOLINE                      | 10,769    |            |
|   | 2914 DISTILLATE FUEL OIL           | 19,226    |            |
|   | TOTAL                              | 41,490    |            |
| SHEBOYGAN HARBOR, WIS.                          | 0011 FRESH FISH, EXCEPT SHELLFISH  | 618       |            |
|   | 1121 COAL AND LIGNITE              | 106,430   |            |
|   | 1499 NONMETALLIC MINERALS, NEC     | 31,416    |            |
|   | 2013 ALCOHOLS                      | 4,647     |            |
|   | 2819 BASIC CHEMICALS AND PROD, NEC | 13,715    |            |
|   | 3312 SLAG                          | 10,750    |            |
|   | TOTAL                              | 167,576   |            |
| STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WIS. | 0011 FRESH FISH, EXCEPT SHELLFISH  | 21        |            |
|   | 1011 IRON ORE AND CONCENTRATES     | 8,656     |            |
|   | 1121 COAL AND LIGNITE              | 8,900     |            |
|   | 1411 LIMESTONE                     | 19,224    |            |
|   | TOTAL                              | 36,801    | 6,624      |
| TWO RIVERS HARBOR, WIS.                         | 0011 FRESH FISH, EXCEPT SHELLFISH  | 10,274    |            |
|   | 2871 NITROGENOUS CHEM FERTILIZERS  | 2,701     |            |
|   | TOTAL                              | 12,975    |            |
| NONPROJECT                                      |                                    |           |            |
| BUFFINGTON HARBOR, IND.                         | 1091 ALUMINUM ORES, CONCENTRATES   | 103,392   |            |
|   | 1411 LIMESTONE                     | 1,075,879 |            |
|   | 1499 NONMETALLIC MINERALS, NEC     | 5,919     |            |
|   | 2020 COKE, PETROLEUM COKE          | 106,827   |            |
|   | 3241 BUILDING CEMENT               | 39,311    |            |
|   | 3315 IRON, STEEL SHAPES, ETC SHEET | 800       |            |
|   | 3317 IRON AND STEEL PIPE AND TUBE  | 800       |            |
|   | 3411 FABRICATED METAL PRODUCTS     | 5,970     |            |
|   | 3911 MACHINERY, EXCEPT ELECTRICAL  | 800       |            |
|   | TOTAL                              | 2,339,698 |            |
| GARY HARBOR, IND.                               | 0011 FRESH FISH, EXCEPT SHELLFISH  | 1         |            |
|   | 1011 IRON ORE AND CONCENTRATES     | 5,868,637 |            |
|   | 1061 MANGANESE ORES, CONCENTRATES  | 13,439    |            |
|   | 1091 NONFERROUS ORES, CONCENT, NEC | 4,174     |            |
|   | 1411 LIMESTONE                     | 666,114   |            |
|   | 1499 NONMETALLIC MINERALS, NEC     | 23,033    |            |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

## OTHER HARBORS AND WATERWAYS--CONTINUED

| HARBOR OR WATERWAY                 | COMMODITY                               | TONS      | PASSENGERS |
|------------------------------------|---|-----------|------------|
| NONPROJECT--CONTINUED              |   |           |            |
| GARY HARBOR, IND, (CONTINUED)----- | 2920 COKE, PETROLEUM COKE-----          | 1,400     | -----      |
|                                    | 3311 PIG IRON-----                      | 1,115     | -----      |
|                                    | 3314 IRON AND STEEL PRIMARY FORMS-----  | 8,164     | -----      |
|                                    | 3315 IRON, STEEL SHAPES, ETC SHEET----- | 40,726    | -----      |
|                                    | 3316 IRON AND STEEL PLATES, SHEETS----- | 94,265    | -----      |
|                                    | 3317 IRON AND STEEL PIPE AND TUBE-----  | 3,706     | -----      |
|                                    | 3318 FERROALLOYS-----                   | 25,812    | -----      |
|                                    | 3319 IRON AND STEEL PRODUCTS, NEC-----  | 73,785    | -----      |
|                                    | 3411 FABRICATED METAL PRODUCTS-----     | 4,491     | -----      |
|                                    | 4011 IRON AND STEEL SCRAP-----          | 42,973    | -----      |
|                                    | TOTAL-----                              | 6,870,639 | -----      |

# DETROIT, MICH., DISTRICT

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## PRESQUE ISLE HARBOR, MICH.

SECTION INCLUDED: ENTIRE HARBOR, CONTROLLING AND PROJECT DEPTHS: 30 FEET IN APPROACH AND 20 FEET IN BASIN, NAVIGATION SEASON: MARCH 31 TO JANUARY 21.

### COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS      |
|-----------|-----------|-----------|-----------|
| 1971----- | 3,949,274 | 1976----- | 6,840,553 |
| 1972----- | 3,490,111 | 1977----- | 9,219,296 |
| 1973----- | 3,740,726 | 1978----- | 7,056,888 |
| 1974----- | 3,118,370 | 1979----- | 8,121,748 |
| 1975----- | 3,846,960 | 1980----- | 7,881,252 |

### FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                           | TOTAL     | FOREIGN<br>CANADIAN | DOMESTIC<br>LAKEWISE |           |
|-------------------------------------|-----------|---------------------|----------------------|-----------|
|                                     |           | EXPORTS             | RECEIPTS             | SHIPMENTS |
| TOTAL-----                          | 7,881,252 | 3,741,008           | 1,496,010            | 2,644,194 |
| 1011 IRON ORE AND CONCENTRATES----- | 6,385,242 | 3,741,008           | -----                | 2,644,194 |
| 1121 COAL AND LIGNITE-----          | 1,444,834 | -----               | 1,444,834            | -----     |
| 2911 GASOLINE-----                  | 26,034    | -----               | 26,034               | -----     |
| 2914 DISTILLATE FUEL OIL-----       | 25,142    | -----               | 25,142               | -----     |

## ST. MARYS RIVER, MICH.

SECTION INCLUDED: ENTIRE LENGTH OF ST. MARYS RIVER FROM LAKE SUPERIOR TO LAKE MICHIGAN, INCLUDING AMERICAN PORTS OF SAULT STE. MARIE, RABER, LIME ISLAND, DRUMMOND ISLAND, AND DETOUR, MICHIGAN.

| NAME OF CANAL                       | PROJECT<br>DEPTH | CONTROLLING<br>DEPTH |
|-------------------------------------|------------------|----------------------|
| GROS CAP REEFS-----                 | 30.0             | 30.0                 |
| POINT IROQUOIS SHOAL CHANNEL-----   | 30.0             | 29.4                 |
| POINT IROQUOIS ANCHORAGE AREAS----- | 29.0             | 21.0                 |
| BIRCH POINT COURSE-----             | 28.0-30.0        | 30.0                 |
| BRUSH POINT COURSE-----             | 28.0             | 28.0                 |
| POINT LOUISE CHANNEL-----           | 28.0             | 28.0                 |
| POINT AUX PINS COURSE-----          | 28.0             | 28.0                 |
| VIDAL SHOALS CHANNEL-----           | 28.0             | 28.0                 |

### LOCKS AND CANAL (SEE REPORT FOR ST. MARYS FALL CANAL)

|  |           |      |
|--|-----------|------|
| BAYFIELD CHANNEL COURSE 1-----                         | 28.0      | 28.0 |
| ANCHORAGE AND MANEUVER AREA ANGLE COURSES 1 AND 2----- | 28.5      | 28.5 |
| LITTLE RAPIDS COURSES 2 AND 3-----                     | 27.0      | 27.0 |
| LAKE NICOLET CHANNEL-----                              | 29.0      | 29.0 |
| LAKE NICOLET ANCHORAGE-----                            | 28.0      | 28.0 |
| MIDDLE NEGBISH CHANNEL-----                            | 27.0-28.0 | 27.0 |
| WEST NEGBISH CHANNEL-----                              | 27.5-28.5 | 27.5 |
| LAKE MUNUSCONG CHANNEL-----                            | 28.0      | 28.0 |
| LIME ISLAND CHANNEL-----                               | 29.0      | 29.0 |
| DETOUR PASSAGE-----                                    | 29.0      | 29.0 |
| PIPE ISLAND COURSE-----                                | 29.0      | 29.0 |
| WATSON REEF COURSE-----                                | 30.0      | 30.0 |
| CRAB ISLAND-----                                       | 30.0      | 30.0 |

### COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TRAFFIC OF PORTS |            | THROUGH TRAFFIC |            | TOTAL      |            |
|-----------|------------------|------------|-----------------|------------|------------|------------|
|           | TONS             | PASSENGERS | TONS            | PASSENGERS | TONS       | PASSENGERS |
| 1971----- | 2,462,018        | 654,817    | 73,487,618      | -----      | 75,949,636 | 604,817    |
| 1972----- | 2,176,393        | 567,175    | 78,030,803      | 11         | 80,207,196 | 567,186    |
| 1973----- | 3,127,401        | 952,310    | 94,469,926      | -----      | 97,597,327 | 952,310    |
| 1974----- | 3,239,472        | 965,752    | 83,561,966      | -----      | 86,801,438 | 965,752    |
| 1975----- | 2,562,671        | 586,223    | 75,596,828      | -----      | 78,159,499 | 586,223    |
| 1976----- | 2,705,825        | 634,731    | 76,224,912      | 1,774      | 78,930,737 | 636,505    |
| 1977----- | 2,261,497        | 584,620    | 56,060,524      | -----      | 58,322,023 | 584,620    |
| 1978----- | 2,736,133        | 590,493    | 88,025,435      | -----      | 90,761,568 | 590,493    |
| 1979----- | 2,198,618        | 474,830    | 88,882,344      | -----      | 91,080,962 | 474,830    |
| 1980----- | 1,559,355        | 586,370    | 72,750,692      | 17,852     | 74,310,047 | 600,222    |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

ST. MARYS RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1980

UPBOUND

(SHORT TONS)

| COMMODITY                               | TOTAL     | THROUGH TRAFFIC |           |                      | RECEIPTS AND SHIPMENTS |          |          |       |
|---|-----------|-----------------|-----------|----------------------|------------------------|----------|----------|-------|
|   |           | FOREIGN         |           | DOMESTIC<br>LAKEWISE | FOREIGN                |          | DOMESTIC |       |
|   |           | OVERSEAS        | CANADIAN  |                      | OVERSEAS               | CANADIAN | LAKEWISE | OTHER |
| TOTAL-----                              | 6,719,190 | 13,968          | 8,470,179 | 3,010,852            | 307                    | 195,316  | 68,395   | 133   |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 134       |                 | 1         |                      |                        |          |          | 133   |
| 1011 IRON ORE AND CONCENTRATES-----     | 88,160    |                 | 88,160    |                      |                        |          |          |       |
| 1121 COAL AND LIGNITE-----              | 4,093,703 |                 | 2,471,016 | 1,613,619            |                        |          | 9,072    |       |
| 1411 LIMESTONE-----                     | 1,607,742 |                 | 749,830   | 702,646              |                        | 155,266  |          |       |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 190       |                 | 190       |                      |                        |          |          |       |
| 1499 NONMETALLIC MINERALS, NEC-----     | 124,504   |                 | 124,504   |                      |                        |          |          |       |
| 2081 ALCOHOLIC BEVERAGES-----           | 233       |                 |           |                      | 233                    |          |          |       |
| 2211 BASIC TEXTILE PRODUCTS-----        | 13,406    | 13,406          |           |                      |                        |          |          |       |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 12,148    |                 | 7,926     | 4,222                |                        |          |          |       |
| 2911 GASOLINE-----                      | 89,895    |                 |           | 63,073               |                        |          | 26,822   |       |
| 2914 DISTILLATE FUEL OIL-----           | 121,625   |                 |           | 96,572               |                        |          | 25,053   |       |
| 2919 RESIDUAL FUEL OIL-----             | 22,355    |                 |           | 14,857               |                        | 50       | 7,448    |       |
| 3241 BUILDING CEMENT-----               | 515,867   |                 |           | 515,867              |                        |          |          |       |
| 3281 CUT STONE AND STONE PRODUCTS-----  | 74        |                 |           |                      | 74                     |          |          |       |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 28,432    |                 | 28,432    |                      |                        |          |          |       |
| 3411 FABRICATED METAL PRODUCTS-----     | 1         |                 | 1         |                      |                        |          |          |       |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 39        |                 | 28        | 11                   |                        |          |          |       |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 493       |                 | 493       |                      |                        |          |          |       |
| 4112 COMMODITIES, NEC-----              | 109       |                 | 109       |                      |                        |          |          |       |

DOWNBOUND

(SHORT TONS)

| COMMODITY                               | TOTAL      | THROUGH TRAFFIC |           |                      | RECEIPTS AND SHIPMENTS |           |
|---|------------|-----------------|-----------|----------------------|------------------------|-----------|
|   |            | FOREIGN         |           | DOMESTIC<br>LAKEWISE | FOREIGN                |           |
|   |            | OVERSEAS        | CANADIAN  |                      | CANADIAN               | LAKEWISE  |
| TOTAL-----                              | 67,590,897 | 4,386,244       | 7,720,075 | 54,149,374           | 137,319                | 1,197,885 |
| 0102 BARLEY AND RYE-----                | 1,086,232  | 488,323         | 478,982   | 110,927              |                        |           |
| 0103 CORN-----                          | 1,125,988  | 490,872         | 635,116   |                      |                        |           |
| 0104 OATS-----                          | 65,736     | 53,939          | 8,793     | 3,004                |                        |           |
| 0107 WHEAT-----                         | 9,045,224  | 1,866,265       | 1,776,853 | 1,402,104            |                        |           |
| 0111 SOYBEANS-----                      | 38,012     | 38,012          |           |                      |                        |           |
| 0119 OILSEEDS, NEC-----                 | 1,367,434  | 1,367,434       |           |                      |                        |           |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 242        | 242             |           |                      |                        |           |
| 1011 IRON ORE AND CONCENTRATES-----     | 53,326,072 |                 | 4,033,869 | 49,292,203           |                        |           |
| 1121 COAL AND LIGNITE-----              | 3,300,763  |                 |           | 3,300,763            |                        |           |
| 1411 LIMESTONE-----                     | 1,333,962  |                 |           |                      | 136,077                | 1,197,885 |
| 1412 BUILDING STONE, UNWORKED-----      | 38         | 38              |           |                      |                        |           |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 12,425     |                 | 12,425    |                      |                        |           |
| 1491 CLAY-----                          | 101,435    |                 | 101,435   |                      |                        |           |
| 1499 NONMETALLIC MINERALS, NEC-----     | 1,146      |                 |           |                      | 1,146                  |           |
| 2022 DRIED MILK AND CREAM-----          | 1,187      | 1,187           |           |                      |                        |           |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 1,433      | 1,433           |           |                      |                        |           |
| 2042 PREPARED ANIMAL FEEDS-----         | 36,674     | 36,674          |           |                      |                        |           |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 16,997     | 16,997          |           |                      |                        |           |
| 2081 ALCOHOLIC BEVERAGES-----           | 1          |                 | 1         |                      |                        |           |
| 2411 LOGS-----                          | 2,870      | 2,870           |           |                      |                        |           |
| 2421 LUMBER-----                        | 11         |                 | 11        |                      |                        |           |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 6,962      |                 | 6,962     |                      |                        |           |
| 2611 PULP-----                          | 15,334     |                 | 15,334    |                      |                        |           |
| 2631 PAPER AND PAPERBOARD-----          | 48,816     |                 | 48,816    |                      |                        |           |
| 2672 POTASSIC CHEM FERTILIZERS-----     | 11,211     |                 |           | 11,211               |                        |           |
| 2673 PHOSPHATIC CHEM FERTILIZERS-----   | 566,917    |                 | 566,917   |                      |                        |           |
| 2911 GASOLINE-----                      | 19,818     |                 |           | 19,818               |                        |           |
| 2914 DISTILLATE FUEL OIL-----           | 1,342      |                 |           | 1,342                |                        |           |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 96         |                 |           |                      | 96                     |           |
| 3241 BUILDING CEMENT-----               | 5,572      |                 | 5,572     |                      |                        |           |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 5          |                 | 5         |                      |                        |           |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 2          |                 | 2         |                      |                        |           |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 3          |                 | 3         |                      |                        |           |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 1          |                 | 1         |                      |                        |           |
| 3731 SHIPS AND BOATS-----               | 1          |                 | 1         |                      |                        |           |
| 4011 IRON AND STEEL SCRAP-----          | 50,910     | 21,926          | 28,984    |                      |                        |           |
| 4112 COMMODITIES, NEC-----              | 25         | 25              |           |                      |                        |           |

TONS, ALL TRAFFIC, 74,310,047.  
TON-MILES, ALL TRAFFIC, 4,427,958,116.

ST. MARYS FALLS CANAL, MICHIGAN AND SAULT STE. MARIE,  
ONTARIO SHIP CANAL, CANADA (INCLUDED IN ST. MARYS RIVER)

SECTION INCLUDED: AMERICAN AND CANADIAN NAVIGATION CANALS AND LOCKS AT ST. MARYS FALLS, SAULT STE. MARIE, MICH. AND ONTARIO.  
CONTROLLING DEPTHS: SARIN LOCK 23.1, DAVIS LOCK 23.1, MACARTHUR LOCK 31.0, POE LOCK 32.0 AND 16.8 FEET CANADIAN CANAL. PROJECT DEPTHS:  
SEE ST. MARYS RIVER.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS       | PASSENGERS | YEAR      | TONS       | PASSENGERS |
|-----------|------------|------------|-----------|------------|------------|
| 1971----- | 73,176,550 | 166,450    | 1976----- | 76,739,521 | 155,780    |
| 1972----- | 77,610,332 | 158,934    | 1977----- | 54,302,020 | 152,082    |
| 1973----- | 94,071,821 | 155,792    | 1978----- | 88,634,889 | 156,476    |
| 1974----- | 83,302,741 | 144,176    | 1979----- | 90,499,495 | 113,074    |
| 1975----- | 75,225,477 | 145,944    | 1980----- | 75,048,943 | 106,666    |

## DETROIT, MICH., DISTRICT

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ST. MARYS FALLS CANAL, MICHIGAN AND SAULT STE. MARIE,  
ONTARIO SHIP CANAL, CANADA (INCLUDED IN ST. MARYS RIVER)--CONTINUED

FREIGHT TRAFFIC, 1980

EASTBOUND

(SHORT TONS)

| COMMODITY                              | TOTAL      | THROUGH TRAFFIC |            |            |
|--|------------|-----------------|------------|------------|
|  |            | FOREIGN         | CANADIAN   | DOMESTIC   |
|  |            | OVERSEAS        | LAKEWISSE  |            |
| TOTAL-----                             | 69,193,866 | 6,386,246       | 18,697,448 | 54,149,374 |
| 0102 BARLEY AND RYE-----               | 1,086,232  | 488,323         | 478,982    | 118,927    |
| 0103 CORN-----                         | 1,125,988  | 490,872         | 635,116    | ---        |
| 0104 OATS-----                         | 65,736     | 53,939          | 8,793      | 3,004      |
| 0107 WHEAT-----                        | 9,045,824  | 1,866,265       | 1,776,893  | 1,402,106  |
| 0111 SOYBEANS-----                     | 38,812     | 38,812          | ---        | ---        |
| 0119 OILSEEDS, NEC-----                | 1,367,434  | 1,367,434       | ---        | ---        |
| 0141 FRESH AND FROZEN VEGETABLES-----  | 242        | 242             | ---        | ---        |
| 1011 IRON ORE AND CONCENTRATES-----    | 56,292,967 | ---             | 7,660,384  | 49,292,203 |
| 1121 COAL AND LIGNITE-----             | 3,308,763  | ---             | ---        | 3,308,763  |
| 1412 BUILDING STONE, UNWORKED-----     | 38         | 38              | ---        | ---        |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----   | 12,425     | ---             | 12,425     | ---        |
| 1451 CLAY-----                         | 101,435    | ---             | 101,435    | ---        |
| 2022 DRIED MILK AND CREAM-----         | 1,187      | 1,187           | ---        | ---        |
| 2041 WHEAT FLOUR AND SEMOLINA-----     | 1,433      | 1,433           | ---        | ---        |
| 2042 PREPARED ANIMAL FEEDS-----        | 36,674     | 36,674          | ---        | ---        |
| 2049 GRAIN MILL PRODUCTS, NEC-----     | 16,997     | 16,997          | ---        | ---        |
| 2411 LOGS-----                         | 2,870      | 2,870           | ---        | ---        |
| 2421 LUMBER-----                       | 11         | ---             | 11         | ---        |
| 2431 VENEER, PLYWOOD, WORKED WOOD----- | 6,962      | ---             | 6,962      | ---        |
| 2611 PULP-----                         | 15,334     | ---             | 15,334     | ---        |
| 2631 PAPER AND PAPERBOARD-----         | 48,816     | ---             | 48,816     | ---        |
| 2672 POTASSIC CHEM FERTILIZERS-----    | 11,211     | ---             | ---        | 11,211     |
| 2673 PHOSPHATIC CHEM FERTILIZERS-----  | 566,917    | ---             | 566,917    | ---        |
| 2911 GASOLINE-----                     | 19,818     | ---             | ---        | 19,818     |
| 2914 DISTILLATE FUEL OIL-----          | 1,342      | ---             | ---        | 1,342      |
| 3241 BUILDING CEMENT-----              | 5,500      | ---             | 5,500      | ---        |
| 3511 MACHINERY, EXCEPT ELECTRICAL----- | 2          | 2               | ---        | ---        |
| 3611 ELECTRICAL MACH AND EQUIP-----    | 3          | 3               | ---        | ---        |
| 3711 MOTOR VEHICLES, PARTS, EQUIP----- | 1          | 1               | ---        | ---        |
| 3731 SHIPS AND BOATS-----              | 1          | 1               | ---        | ---        |
| 4011 IRON AND STEEL SCRAP-----         | 21,926     | 21,926          | ---        | ---        |
| 4112 COMMODITIES, NEC-----             | 29         | 29              | ---        | ---        |

WESTBOUND

(SHORT TONS)

| COMMODITY                               | TOTAL     | THROUGH TRAFFIC |           |           |
|---|-----------|-----------------|-----------|-----------|
|   |           | FOREIGN         | CANADIAN  | DOMESTIC  |
|   |           | OVERSEAS        | LAKEWISSE |           |
| TOTAL-----                              | 5,859,877 | 13,968          | 2,831,097 | 3,010,852 |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 1         | ---             | 1         | ---       |
| 1121 COAL AND LIGNITE-----              | 4,084,631 | ---             | 2,471,016 | 1,613,615 |
| 1411 Limestone-----                     | 947,978   | ---             | 245,332   | 702,646   |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 190       | ---             | 190       | ---       |
| 1499 NONMETALLIC MINERALS, NEC-----     | 106,472   | ---             | 106,472   | ---       |
| 2211 BASIC TEXTILE PRODUCTS-----        | 13,486    | 13,486          | ---       | ---       |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 12,148    | ---             | 7,926     | 4,222     |
| 2911 GASOLINE-----                      | 63,073    | ---             | ---       | 63,073    |
| 2914 DISTILLATE FUEL OIL-----           | 96,572    | ---             | ---       | 96,572    |
| 2915 RESIDUAL FUEL OIL-----             | 14,857    | ---             | ---       | 14,857    |
| 3241 BUILDING CEMENT-----               | 515,867   | ---             | ---       | 515,867   |
| 3411 FABRICATED METAL PRODUCTS-----     | 1         | 1               | ---       | ---       |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 39        | 28              | 11        | ---       |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 453       | 453             | ---       | ---       |
| 4112 COMMODITIES, NEC-----              | 109       | ---             | 109       | ---       |

TONS, ALL TRAFFIC: 75,048,943.

DRUMMOND ISLAND, MICH. (INCLUDED IN ST. MARYS RIVER)

SECTION INCLUDED: PRIVATE LOADING DOCK ON ST. MARYS RIVER AT DRUMMOND ISLAND, MICH. CONTROLLING DEPTHS: 30 FEET TO AND FROM LAKE HURON; 27.0 FEET TO AND FROM LAKE SUPERIOR; 23 FEET AT DOCK. PROJECT DEPTH: SEE ST. MARYS RIVER.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | PASSENGERS | YEAR      | TONS      | PASSENGERS |
|-----------|-----------|------------|-----------|-----------|------------|
| 1971----- | 2,045,120 | 126,274    | 1976----- | 2,511,365 | 123,551    |
| 1972----- | 1,784,051 | 106,957    | 1977----- | 2,131,597 | 89,367     |
| 1973----- | 2,732,803 | 114,767    | 1978----- | 2,378,354 | 83,263     |
| 1974----- | 2,909,592 | 131,444    | 1979----- | 2,047,047 | 66,605     |
| 1975----- | 2,341,074 | 113,374    | 1980----- | 1,489,324 | 210,026    |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

DRUMMOND ISLAND, MICH. (INCLUDED IN ST. MARYS RIVER)--CONTINUED

FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                              | TOTAL     | FOREIGN  | DOMESTIC  |
|--|-----------|----------|-----------|
|  |           | CANADIAN | LAKEWISE  |
|  |           | EXPORTS  | SHIPMENTS |
| TOTAL-----                             | 1,489,324 | 291,439  | 1,197,885 |
| 1411 LIMESTONE-----                    | 1,489,228 | 291,343  | 1,197,885 |
| 3011 RUBBER AND MISC PLASTIC PROD----- | 96        | 96       | -----     |

GRAYS REEF PASSAGE, MICH.

SECTION INCLUDED: EAST CHANNEL, 3,000 FEET WIDE AND ABOUT 2 MILES LONG. CONTROLLING AND PROJECT DEPTHS: 25 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | PASSENGERS | YEAR      | TONS      | PASSENGERS |
|-----------|-----------|------------|-----------|-----------|------------|
| 1971----- | 7,588,948 | -----      | 1976----- | 5,899,432 | 6          |
| 1972----- | 6,808,391 | -----      | 1977----- | 5,378,680 | -----      |
| 1973----- | 7,887,628 | -----      | 1978----- | 6,562,477 | 940        |
| 1974----- | 5,741,092 | -----      | 1979----- | 7,690,697 | -----      |
| 1975----- | 5,467,947 | -----      | 1980----- | 6,020,552 | -----      |

FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL     | THROUGH TRAFFIC |            |            |            |
|---|-----------|-----------------|------------|------------|------------|
|   |           | FOREIGN         |            | DOMESTIC   |            |
|   |           | OVERSEAS        | CANADIAN   | LAKEWISE   | LAKEWISE   |
|   |           | NORTHBOUND      | NORTHBOUND | NORTHBOUND | SOUTHBOUND |
| TOTAL-----                              | 6,020,552 | 1,482,117       | 2,823,574  | 1,337,148  | 377,713    |
| 0103 CORN-----                          | 2,023,872 | 350,997         | 1,473,315  | -----      | -----      |
| 0104 OATS-----                          | 2,389     | 1,643           | 746        | -----      | -----      |
| 0107 WHEAT-----                         | 66        | 66              | -----      | -----      | -----      |
| 0111 SOYBEANS-----                      | 133,689   | 113,594         | 20,295     | -----      | -----      |
| 0129 FIELD CROPS, NEC-----              | 5         | 5               | -----      | -----      | -----      |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 390       | 110             | 280        | -----      | -----      |
| 0161 ANIMALS AND PRODUCTS, NEC-----     | 3,126     | 3,099           | 31         | -----      | -----      |
| 0191 MISCELLANEOUS FARM PRODUCTS-----   | 2         | 2               | -----      | -----      | -----      |
| 0861 FOREST PRODUCTS, NEC-----          | 2         | 2               | -----      | -----      | -----      |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 199       | 199             | -----      | -----      | -----      |
| 0912 SHELLFISH, EXCEPT PREPARED-----    | 4         | 4               | -----      | -----      | -----      |
| 1051 ALUMINUM DRES, CONCENTRATES-----   | 1         | 1               | -----      | -----      | -----      |
| 1121 COAL AND LIGNITE-----              | 430,544   | -----           | 7,435      | 91,444     | 331,665    |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 357,710   | 886             | 171        | 357,253    | -----      |
| 1451 CLAY-----                          | 296,637   | 138,746         | 67,891     | -----      | -----      |
| 1492 SULPHUR, DRY-----                  | 2         | 2               | -----      | -----      | -----      |
| 1499 NONMETALLIC MINERALS, NEC-----     | 66        | 66              | -----      | -----      | -----      |
| 1911 ORDNANCE AND ACCESSORIES-----      | 19        | 19              | -----      | -----      | -----      |
| 2011 MEAT, FRESH, CHILLED, FROZEN-----  | 38,998    | 38,998          | 5          | -----      | -----      |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 55,392    | 55,392          | 193        | -----      | -----      |
| 2015 ANIMAL BY-PRODUCTS, NEC-----       | 1,483     | 1,483           | 197        | -----      | -----      |
| 2021 DAIRY PRODUCTS, NEC-----           | 240       | 240             | -----      | -----      | -----      |
| 2022 DRIED MILK AND CREAM-----          | 6,068     | 6,068           | -----      | -----      | -----      |
| 2034 VEGETABLES AND PREP, NEC-----      | 389       | 301             | 88         | -----      | -----      |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 438       | 438             | -----      | -----      | -----      |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 25,456    | 25,173          | 283        | -----      | -----      |
| 2042 PREPARED ANIMAL FEEDS-----         | 8,826     | 8,222           | 604        | -----      | -----      |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 100,394   | 99,416          | 978        | -----      | -----      |
| 2081 ALCOHOLIC BEVERAGES-----           | 122       | 106             | 16         | -----      | -----      |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 5,529     | 5,402           | 127        | -----      | -----      |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 13,448    | 12,153          | 1,295      | -----      | -----      |
| 2211 BASIC TEXTILE PRODUCTS-----        | 461       | 388             | 73         | -----      | -----      |
| 2311 APPAREL-----                       | 1,373     | 1,366           | 7          | -----      | -----      |
| 2411 LOGS-----                          | 23,085    | 23,085          | -----      | -----      | -----      |
| 2421 LUMBER-----                        | 1,848     | 1,848           | -----      | -----      | -----      |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 6         | 6               | -----      | -----      | -----      |
| 2491 WOOD MANUFACTURES, NEC-----        | 1,033     | 1,008           | 25         | -----      | -----      |
| 2511 FURNITURE AND FIXTURES-----        | 109       | 98              | 11         | -----      | -----      |
| 2611 PULP-----                          | 666       | 666             | -----      | -----      | -----      |
| 2631 PAPER AND PAPERBOARD-----          | 4,292     | 4,219           | 77         | -----      | -----      |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 259       | 193             | 66         | -----      | -----      |
| 2711 PRINTED MATTER-----                | 1,202     | 1,111           | 91         | -----      | -----      |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 59,856    | 1,818           | 188        | 57,820     | -----      |
| 2821 PLASTIC MATERIALS-----             | 813       | 748             | 65         | -----      | -----      |
| 2822 SYNTHETIC RUBBER-----              | 67        | 67              | -----      | -----      | -----      |
| 2831 DRUGS-----                         | 173       | 166             | 7          | -----      | -----      |
| 2841 SOAP-----                          | 389       | 246             | 143        | -----      | -----      |
| 2891 PAINTS-----                        | 174       | 91              | 83         | -----      | -----      |
| 2861 GUM AND WOOD CHEMICALS-----        | 36        | 20              | 16         | -----      | -----      |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 27,109    | -----           | 4,200      | 22,909     | -----      |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 50        | 2               | 48         | -----      | -----      |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 2,482     | 1,952           | 530        | -----      | -----      |
| 2911 GASOLINE-----                      | 241,562   | 25              | -----      | 241,537    | -----      |
| 2914 DISTILLATE FUEL OIL-----           | 182,281   | -----           | -----      | 182,281    | -----      |
| 2915 RESIDUAL FUEL OIL-----             | 7,886     | -----           | -----      | 7,886      | -----      |
| 2916 LUBRICATING OILS AND GREASES-----  | 16,240    | 173             | 16,067     | -----      | -----      |
| 2918 ASPHALT, TAR, AND BITUMENS-----    | 140,193   | 103             | -----      | 94,032     | 46,048     |
| 2920 COKE, PETROLEUM COKE-----          | 1,284,445 | 210,165         | 981,826    | 92,454     | -----      |
| 2921 LIQUEFIED GASES-----               | 80        | 80              | -----      | -----      | -----      |

## DETROIT, MICH., DISTRICT

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GRAYS REEF PASSAGE; MICH.--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

(SHORT TONS)

| COMMODITY                          | TOTAL   | THROUGH TRAFFIC |            |            |            |
|------------------------------------|---------|-----------------|------------|------------|------------|
|                                    |         | FOREIGN         |            | DOMESTIC   |            |
|                                    |         | OVERSEAS        | CANADIAN   | LAKEWISSE  | LAKEWISSE  |
|                                    |         | NORTHBOUND      | NORTHBOUND | NORTHBOUND | SOUTHBOUND |
| 2991 PETROLEUM AND COAL PROD, NEC  | 10      | 10              |            |            |            |
| 3011 RUBBER AND MISC PLASTIC PROD  | 351     | 241             | 110        |            |            |
| 3111 LEATHER AND LEATHER PRODUCTS  | 314     | 218             | 96         |            |            |
| 3211 GLASS AND GLASS PRODUCTS      | 200     | 196             | 4          |            |            |
| 3241 BUILDING CEMENT               | 159,966 | 6               |            | 159,960    |            |
| 3281 CUT STONE AND STONE PRODUCTS  | 132     | 132             |            |            |            |
| 3291 MISC NONMETALLIC MINERAL PROD | 86      | 77              | 9          |            |            |
| 3312 SLAG                          | 29,000  |                 |            | 29,000     |            |
| 3314 IRON AND STEEL PRIMARY FORMS  | 32,912  | 4,480           | 28,432     |            |            |
| 3319 IRON, STEEL SHAPES, EXC SHEET | 1,570   | 1,570           |            |            |            |
| 3316 IRON AND STEEL PLATES, SHEETS | 156,027 | 44,875          | 11,952     |            |            |
| 3317 IRON AND STEEL PIPE AND TUBE  | 191     | 178             | 13         |            |            |
| 3319 IRON AND STEEL PRODUCTS, NEC  | 2,079   | 213             | 2,766      |            |            |
| 3321 NONFERROUS METALS, NEC        | 156     | 126             | 30         |            |            |
| 3322 COPPER ALLOYS, UNWORKED       | 68      | 49              | 19         |            |            |
| 3323 LEAD AND ZINC, UNWORKED       | 1,653   | 1,653           |            |            |            |
| 3324 ALUMINUM AND ALLOYS, UNWORKED | 110     | 10              | 100        |            |            |
| 3411 FABRICATED METAL PRODUCTS     | 2,789   | 1,702           | 915        |            |            |
| 3511 MACHINERY, EXCEPT ELECTRICAL  | 19,748  | 18,549          | 1,199      |            |            |
| 3611 ELECTRICAL MACH AND EQUIP     | 5,295   | 5,063           | 232        |            |            |
| 3711 MOTOR VEHICLES, PARTS, EQUIP  | 4,117   | 3,958           | 159        |            |            |
| 3721 AIRCRAFT AND PARTS            | 8       | 8               |            |            |            |
| 3731 SHIPS AND BOATS               | 67      | 67              |            |            |            |
| 3791 MISC TRANSPORTATION EQUIPMENT | 202     | 148             | 54         |            |            |
| 3811 INSTR, TIME, PHOTO, OPT GOODS | 240     | 196             | 44         |            |            |
| 3911 MISC MANUFACTURED PRODUCTS    | 511     | 368             | 143        |            |            |
| 4011 IRON AND STEEL SCRAP          | 185,964 | 185,964         |            |            |            |
| 4012 NONFERROUS METAL SCRAP        | 1,675   | 1,532           | 143        |            |            |
| 4112 COMMODITIES, NEC              | 73      | 67              | 6          |            |            |
| 9999 DEPARTMENT OF DEFENSE AND SCI | 114     | 114             |            |            |            |

## TRAVERSE CITY HARBOR, MICH.

SECTION INCLUDED: CITY OF TRAVERSE CITY AND THE BAY SHORE TO AND INCLUDING THE EXISTING FEDERAL PROJECT LOCATED ABOUT 1.25 MILES NORTH OF THE CITY LIMITS. CONTROLLING DEPTH: 14 AND 10 FEET AT THE EXISTING PROJECT. PROJECT DEPTH: 14 AND 10 FEET AT THE EXISTING PROJECT. NAVIGATION SEASON: MARCH 4 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS    | YEAR | TONS    |
|------|---------|------|---------|
| 1971 | 308,475 | 1976 | 398,277 |
| 1972 | 446,244 | 1977 | 430,666 |
| 1973 | 422,447 | 1978 | 426,212 |
| 1974 | 405,156 | 1979 | 318,194 |
| 1975 | 364,777 | 1980 | 323,314 |

## FREIGHT TRAFFIC, 1980

## DOMESTIC

(SHORT TONS)

| COMMODITY                | LAKEWISSE |
|--------------------------|-----------|
|                          | RECEIPTS  |
| TOTAL                    | 323,314   |
| 1121 COAL AND LIGNITE    | 24,933    |
| 2911 GASOLINE            | 280,529   |
| 2914 DISTILLATE FUEL OIL | 89,252    |
| 3312 SLAG                | 9,600     |

## FRANKFORT HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL AND ENTIRE AREA OF LAKE BETSIE. CONTROLLING DEPTH: 22 FEET FROM LAKE MICHIGAN TO 23 FEET IN OUTER BASIN; 22 FEET ENTRANCE CHANNEL TO LAKE BETSIE; 18 FEET IN THE INNER BASIN OF LAKE BETSIE AND 10 FEET IN RECREATIONAL ANCHORAGE AREA.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS      | PASSENGERS | YEAR | TONS      | PASSENGERS |
|------|-----------|------------|------|-----------|------------|
| 1971 | 1,563,448 | 29,666     | 1976 | 433,867   | 13,410     |
| 1972 | 1,393,101 | 21,614     | 1977 | 369,681   | 17,449     |
| 1973 | 1,176,446 | 15,076     | 1978 | 548,446   | 20,491     |
| 1974 | 881,645   | 13,821     | 1979 | 1,397,288 | 16,185     |
| 1975 | 644,659   | 14,077     | 1980 | 944,526   | 24,391     |



## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

FRANKFORT HARBOR, MICH.--CONTINUED

FREIGHT TRAFFIC, 1980

DOMESTIC

(SHORT TONS)

| COMMODITY                               | TOTAL   | LAKEWISE |           |
|---|---------|----------|-----------|
|   |         | RECEIPTS | SHIPMENTS |
| TOTAL-----                              | 944,526 | 598,853  | 345,673   |
| 0104 OATS-----                          | 200     | ---      | 200       |
| 0107 WHEAT-----                         | 200     | ---      | 200       |
| 0122 HAY AND FODDER-----                | 99      | 47       | 48        |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 10,840  | 12,295   | 6,545     |
| 0161 ANIMALS AND PRODUCTS, NEC-----     | 125     | 125      | ---       |
| 0191 MISCELLANEOUS FARM PRODUCTS-----   | 325     | 45       | 280       |
| 0841 FOREST PRODUCTS, NEC-----          | 15      | 15       | ---       |
| 1021 COPPER ORE AND CONCENTRATES-----   | 420     | 420      | ---       |
| 1121 COAL AND LIGNITE-----              | 2,550   | 840      | 1,710     |
| 1412 BUILDING STONE, UNWORKED-----      | 50      | 50       | ---       |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 2,240   | 2,240    | ---       |
| 1491 CLAY-----                          | 37,144  | 29,784   | 7,360     |
| 1499 NATURAL FERTILIZER MATS, NEC-----  | 30      | 15       | 15        |
| 1499 NONMETALLIC MINERALS, NEC-----     | 2,535   | 2,055    | 480       |
| 2011 MEAT, FRESH, CHILLED, FROZEN-----  | 150     | ---      | ---       |
| 2012 MEAT AND PRODUCTS, NEC-----        | 340     | 340      | ---       |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 660     | 660      | ---       |
| 2019 ANIMAL BY-PRODUCTS, NEC-----       | 1,275   | 1,225    | 50        |
| 2021 DAIRY PRODUCTS, NEC-----           | 2,386   | 1,936    | 450       |
| 2022 DAIRIED MILK AND CREAM-----        | 1,350   | 1,280    | 70        |
| 2031 FISH AND SHELLFISH, PREPARED-----  | 9,450   | 9,450    | ---       |
| 2031 VEGETABLES AND PREP, NEC-----      | 76,909  | 60,594   | 16,315    |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 19,910  | 16,365   | 3,545     |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 8,855   | 6,005    | 2,850     |
| 2042 PREPARED ANIMAL FEEDS-----         | 950     | 320      | 630       |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 9,515   | 7,310    | 2,205     |
| 2081 SUGAR-----                         | 2,525   | 2,330    | 195       |
| 2081 ALCOHOLIC BEVERAGES-----           | 645     | 180      | 465       |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 100     | ---      | 100       |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 7,090   | 4,735    | 2,355     |
| 2211 BASIC TEXTILE PRODUCTS-----        | 199     | 199      | ---       |
| 2212 TEXTILE FIBERS, NEC-----           | 247     | 247      | ---       |
| 2414 TIMBER, POSTS, POLES, PILING-----  | 3,315   | 3,230    | 85        |
| 2415 PULPHOOD, LOG-----                 | 300     | ---      | 300       |
| 2416 WOOD CHIPS, STAVES, HOLDINGS-----  | 445     | 250      | 195       |
| 2421 LUMBER-----                        | 19,046  | 14,646   | 4,400     |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 77,343  | 65,710   | 11,633    |
| 2491 WOOD MANUFACTURES, NEC-----        | 3,940   | 2,780    | 760       |
| 2511 FURNITURE AND FIXTURES-----        | 423     | 336      | 87        |
| 2611 PULP-----                          | 1,810   | 1,040    | 770       |
| 2621 STANDARD NEWSPRINT PAPER-----      | 29,120  | 25,970   | 3,150     |
| 2631 PAPER AND PAPERBOARD-----          | 163,177 | 62,102   | 121,075   |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 20,542  | 17,722   | 2,820     |
| 2810 SODIUM HYDROXIDE-----              | 34,996  | 34,126   | 870       |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 80      | ---      | 80        |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 260     | ---      | 260       |
| 2821 PLASTIC MATERIALS-----             | 1,360   | 605      | 755       |
| 2822 SYNTHETIC RUBBER-----              | 320     | 240      | 80        |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 1,800   | 100      | 1,700     |
| 2872 POTASSIC CHEM FERTILIZERS-----     | 17,600  | 17,000   | 600       |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 33,900  | 22,300   | 11,600    |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 120     | 120      | ---       |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 2,620   | 875      | 1,745     |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 51,519  | 34,239   | 17,280    |
| 2910 ASPHALT, TAR, AND PITCHES-----     | 66,310  | 65,800   | 510       |
| 2991 ASPHALT BUILDING MATERIALS-----    | 120     | ---      | 120       |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 320     | ---      | 320       |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 500     | 125      | 375       |
| 3111 LEATHER AND LEATHER PRODUCTS-----  | 30      | ---      | 30        |
| 3241 BUILDING CEMENT-----               | 6,730   | 1,550    | 5,180     |
| 3291 STRUCTURAL CLAY PRODUCTS-----      | 12,938  | 7,880    | 5,058     |
| 3291 CUT STONE AND STONE PRODUCTS-----  | 305     | 165      | 140       |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 12,145  | 11,760   | 385       |
| 3311 PIG IRON-----                      | 2,210   | 420      | 1,790     |
| 3312 SLAG-----                          | 80      | ---      | 80        |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 42,080  | 11,220   | 30,780    |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 46,085  | 13,920   | 32,565    |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 360     | ---      | 360       |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 17,440  | ---      | 17,440    |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 8,395   | 440      | 7,955     |
| 3321 NONFERROUS METALS, NEC-----        | 1,110   | 1,095    | 15        |
| 3322 COPPER ALLOYS, UNWORKED-----       | 10,350  | 7,470    | 2,880     |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 6,115   | 4,805    | 1,310     |
| 3411 FABRICATED METAL PRODUCTS-----     | 1,934   | 1,354    | 580       |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 565     | 105      | 460       |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 196     | 70       | 126       |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 9,134   | 3,577    | 5,557     |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 920     | 230      | 690       |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 2,888   | 834      | 2,054     |
| 4011 IRON AND STEEL SCRAP-----          | 240     | 30       | 210       |
| 4012 NONFERROUS METAL SCRAP-----        | 330     | ---      | 330       |
| 4022 TEXTILE WASTE, SCRAP, SHEEP-----   | 1,830   | 1,045    | 785       |
| 4024 PAPER WASTE AND SCRAP-----         | 1,885   | 650      | 1,215     |
| 4029 WASTE AND SCRAP, NEC-----          | 120     | ---      | 120       |

## DETROIT, MICH., DISTRICT

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LUDINGTON HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL AND ENTIRE AREA OF PERE MARQUETTE LAKE, CONTROLLING DEPTHS: 23 FEET IN THE OUTER ENTRANCE BAR DECREASING TO 20 FEET THROUGH THE OUTER BASIN AND IN THE CHANNEL TO PERE MARQUETTE LAKE. PROJECT DEPTHS: 10 FEET TO PERE MARQUETTE LAKE. NAVIGATION SEASON: APRIL 2 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | PASSENGERS | YEAR      | TONS      | PASSENGERS |
|-----------|-----------|------------|-----------|-----------|------------|
| 1971----- | 4,298,442 | 205,389    | 1976----- | 2,338,774 | 196,216    |
| 1972----- | 3,368,815 | 176,598    | 1977----- | 2,448,983 | 169,871    |
| 1973----- | 2,941,739 | 179,055    | 1978----- | 2,397,920 | 118,806    |
| 1974----- | 2,178,835 | 188,426    | 1979----- | 2,764,888 | 133,765    |
| 1975----- | 2,123,507 | 149,251    | 1980----- | 2,129,001 | 134,272    |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL     | FOREIGN  | DOMESTIC  |                       | LOCAL |
|---|-----------|----------|-----------|-----------------------|-------|
|   |           | CANADIAN | IMPORTS   | RECEIPTS<br>SHIPMENTS |       |
| TOTAL-----                              | 2,129,001 | 12       | 1,063,443 | 1,065,540             | 6     |
| 0102 BARLEY AND RYE-----                | 480       |          | 480       |                       |       |
| 0129 FIELD CROPS, NEC-----              | 3,459     |          | 3,419     | 40                    |       |
| 0131 FRESH FRUITS AND TREE NUTS-----    | 80        |          |           | 80                    |       |
| 0191 MISCELLANEOUS FARM PRODUCTS-----   | 4,615     |          | 4,223     | 392                   |       |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 6         |          |           |                       | 6     |
| 1121 COAL AND LIGNITE-----              | 15,300    |          | 6,316     | 8,984                 |       |
| 1411 Limestone-----                     | 723,808   |          | 723,808   |                       |       |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 284,864   |          | 8,435     | 276,431               |       |
| 1451 CLAY-----                          | 80        |          |           | 80                    |       |
| 1499 NONMETALLIC MINERALS, NEC-----     | 152,469   |          |           | 152,469               |       |
| 2019 ANIMAL BY-PRODUCTS, NEC-----       | 2,081     |          | 200       | 1,881                 |       |
| 2021 DAIRY PRODUCTS, NEC-----           | 8,330     |          | 7,683     | 1,247                 |       |
| 2034 VEGETABLES AND PREP, NEC-----      | 7,620     |          | 5,270     | 2,350                 |       |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 19,465    |          | 19,465    |                       |       |
| 2042 PREPARED ANIMAL FEEDS-----         | 4,273     |          | 4,273     |                       |       |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 46,405    |          | 46,335    | 70                    |       |
| 2081 ALCOHOLIC BEVERAGES-----           | 1,507     |          | 1,507     |                       |       |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 12,743    |          | 8,509     | 4,234                 |       |
| 2415 PULPWOOD, LOG-----                 | 30,816    |          | 12,590    | 18,226                |       |
| 2421 LUMBER-----                        | 34,001    |          | 25,883    | 8,118                 |       |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 11,501    |          | 11,501    |                       |       |
| 2491 WOOD MANUFACTURES, NEC-----        | 2,787     |          | 2,787     |                       |       |
| 2511 FURNITURE AND FIXTURES-----        | 180       |          |           | 180                   |       |
| 2611 PULP-----                          | 13,209    |          | 5,670     | 7,539                 |       |
| 2621 STANDARD NEWSPRINT PAPER-----      | 17,124    |          |           | 17,124                |       |
| 2631 PAPER AND PAPERBOARD-----          | 142,727   |          | 108,804   | 33,923                |       |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 29,548    |          | 2,200     | 27,348                |       |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 319,813   |          |           | 319,813               |       |
| 2821 PLASTIC MATERIALS-----             | 16,702    |          | 14,911    | 1,791                 |       |
| 2841 SOAP-----                          | 217       |          | 217       |                       |       |
| 2872 POTASSIC CHEM FERTILIZERS-----     | 100       |          | 100       |                       |       |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 93,491    |          | 5,430     | 88,061                |       |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 120       |          |           | 120                   |       |
| 3111 LEATHER AND LEATHER PRODUCTS-----  | 1,782     |          | 600       | 1,182                 |       |
| 3241 BUILDING CEMENT-----               | 3,242     |          |           | 3,242                 |       |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 568       |          | 100       | 468                   |       |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 4,482     |          |           | 4,482                 |       |
| 3411 FABRICATED METAL PRODUCTS-----     | 855       |          | 130       | 725                   |       |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 12,483    | 12       | 9,705     | 2,766                 |       |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 17,935    |          |           | 17,935                |       |
| 3731 SHIPS AND BOATS-----               | 295       |          |           | 95                    | 200   |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 270       |          |           | 270                   |       |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 79,174    |          | 20,687    | 58,487                |       |
| 4011 IRON AND STEEL SCRAP-----          | 6,761     |          | 2,405     | 4,356                 |       |
| 4024 PAPER WASTE AND SCRAP-----         | 1,231     |          |           | 39                    | 1,196 |

## MUSKEGON HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL AND ENTIRE AREA OF MUSKEGON LAKE, CONTROLLING DEPTHS: 29.0 FEET THROUGH THE OUTER PORTION OF PROJECT AND 27 FEET IN CHANNEL TO MUSKEGON LAKE, PROJECT DEPTH: VARYING FROM 29.0 FEET AT HARBOR ENTRANCE TO 28 FEET BETWEEN BREAKWATERS AND 27 FEET IN INNER CHANNEL, NAVIGATION SEASON: APRIL 7 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | PASSENGERS | YEAR      | TONS      | PASSENGERS |
|-----------|-----------|------------|-----------|-----------|------------|
| 1971----- | 3,541,910 | 742        | 1976----- | 2,270,826 |            |
| 1972----- | 2,835,823 |            | 1977----- | 1,912,425 |            |
| 1973----- | 2,922,730 |            | 1978----- | 1,992,476 |            |
| 1974----- | 2,508,138 |            | 1979----- | 1,996,888 |            |
| 1975----- | 1,945,311 |            | 1980----- | 1,235,313 |            |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

MUSKEGON HARBOR, MICH.--CONTINUED

FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                              | TOTAL     | FOREIGN  | DOMESTIC  |          | LOCAL |
|--|-----------|----------|-----------|----------|-------|
|  |           | OVERSEAS | LAKEWISE  | INTERNAL |       |
|  |           | IMPORTS  | RECEIPTS  | RECEIPTS |       |
| TOTAL-----                             | 1,235,315 | 9,627    | 1,212,651 | 12,998   | 39    |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 39        |          |           |          | 39    |
| 1121 COAL AND LIGNITE-----             | 1,089,778 |          | 1,089,778 |          |       |
| 2871 NITROGENOUS CHEM FERTILIZERS----- | 25,263    |          | 12,265    | 12,998   |       |
| 2911 GASOLINE-----                     | 21,936    |          | 21,936    |          |       |
| 2914 DISTILLATE FUEL OIL-----          | 15,521    |          | 15,521    |          |       |
| 3241 BUILDING CEMENT-----              | 73,151    |          | 73,151    |          |       |
| 3318 FERROALLOYS-----                  | 9,627     | 9,627    |           |          |       |

GRAND HAVEN HARBOR AND GRAND RIVER, MICH.

SECTION INCLUDED: ENTIRE HARBOR, INCLUDING FERRYSBURG AND SPRING LAKE; AND GRAND RIVER FROM GRAND TRUNK RY. BRIDGE AT FERRYSBURG TO BASS RIVER ABOUT 15 MILES. CONTROLLING DEPTHS: 22 FEET IN ENTRANCE CHANNEL; 21 FEET TO THE MOUTH OF THE SOUTH CHANNEL; 19 FEET TO THE SAG; 20 FEET TO GRAND TRUNK RY. BRIDGE AT FERRYSBURG; 17 FEET IN THE TURNING BASIN; 17 FEET IN CHANNEL TO SPRING LAKE; THENCE 8 FEET TO MILE 17.0 AND 9 FEET TO THE END OF THE PROJECT. PROJECT DEPTHS: 23 FEET IN ENTRANCE CHANNEL; 21 FEET TO FERRYSBURG; 18 FEET IN CHANNEL TO SPRING LAKE; 8 FEET TO MOUTH OF BASS RIVER; MISCELLANEOUS SHOALS IN THE TURNING BASIN. NAVIGATION SEASON: MARCH 1 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS      |
|-----------|-----------|-----------|-----------|
| 1971----- | 3,134,058 | 1976----- | 830,858   |
| 1972----- | 2,977,109 | 1977----- | 499,510   |
| 1973----- | 2,504,551 | 1978----- | 781,717   |
| 1974----- | 2,215,873 | 1979----- | 1,089,966 |
| 1975----- | 1,138,133 | 1980----- | 585,202   |

FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                             | TOTAL   | FOREIGN  | DOMESTIC |           |
|---------------------------------------|---------|----------|----------|-----------|
|                                       |         | CANADIAN | LAKEWISE |           |
|                                       |         | IMPORTS  | RECEIPTS | SHIPMENTS |
| TOTAL-----                            | 585,202 | 70,374   | 394,433  | 160,395   |
| 1121 COAL AND LIGNITE-----            | 75,365  |          | 75,365   |           |
| 1411 LIMESTONE-----                   | 143,696 |          | 143,696  |           |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----  | 160,395 |          |          | 160,395   |
| 1499 NONMETALLIC MINERALS, NEC-----   | 53,153  |          |          |           |
| 2873 PHOSPHATIC CHEM FERTILIZERS----- | 17,221  |          | 17,221   |           |
| 3312 SLAG-----                        | 139,412 |          | 139,412  |           |

HOLLAND HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL 24 FEET DECREASING TO 21 FEET DEEP AT THE OUTER END OF THE INNER PIER; THENCE A CHANNEL TO AND THROUGH LAKE MACATAWA TO THE WHARVES IN HOLLAND, MICHIGAN, A TURNING BASIN 18 FEET DEEP, A CHANNEL IN BLACK RIVER 21 FEET DEEP AND A SETTLING BASIN ABOVE THE BLACK RIVER CHANNEL TO THE STATE STREET BRIDGE. NAVIGATION SEASON: MARCH 13 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | YEAR      | TONS    |
|-----------|---------|-----------|---------|
| 1971----- | 276,872 | 1976----- | 338,735 |
| 1972----- | 261,738 | 1977----- | 377,122 |
| 1973----- | 448,314 | 1978----- | 419,916 |
| 1974----- | 368,891 | 1979----- | 491,492 |
| 1975----- | 338,089 | 1980----- | 263,177 |

FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                           | TOTAL   | FOREIGN  |          | DOMESTIC |
|-------------------------------------|---------|----------|----------|----------|
|                                     |         | OVERSEAS | CANADIAN | LAKEWISE |
|                                     |         | IMPORTS  | IMPORTS  | RECEIPTS |
| TOTAL-----                          | 263,177 | 4,322    | 23,786   | 235,069  |
| 0121 TOBACCO, LEAF-----             | 3       | 3        |          |          |
| 1121 COAL AND LIGNITE-----          | 122,335 |          |          | 122,335  |
| 1411 LIMESTONE-----                 | 78,162  |          |          | 78,162   |
| 1499 NONMETALLIC MINERALS, NEC----- | 23,786  |          | 23,786   |          |
| 3241 BUILDING CEMENT-----           | 8,272   |          |          | 8,272    |
| 3312 SLAG-----                      | 34,300  |          |          | 34,300   |
| 3318 FERROALLOYS-----               | 4,319   | 4,319    |          |          |

## DETROIT, MICH., DISTRICT

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## ST. JOSEPH HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL AND LOWER PORTION OF ST. JOSEPH RIVER TO AND INCLUDING BENTON HARBOR CANAL, CONTROLLING DEPTH: 24 FEET AT ENTRANCE; 24 FEET BETWEEN ENTRANCE PIERS AND IN THE RIVER TO THE MOUTH OF THE PAN PAN RIVER; WITH 1 FOOT OF SHOALING ALONG THE CHANNEL LIMITS; 17 FEET IN THE TURNING BASIN; AND 18 FEET AT BENTON HARBOR CANAL. PROJECT DEPTHS: 21 FEET AT ENTRANCE, AND IN CHANNEL AND RIVER TO THE MOUTH OF THE PAN PAN RIVER; 18 FEET IN TURNING BASIN AND THE BENTON HARBOR CANAL. NAVIGATION SEASON: MARCH 7 TO DECEMBER 31

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | YEAR      | TONS    |
|-----------|---------|-----------|---------|
| 1971----- | 426,871 | 1976----- | 295,866 |
| 1972----- | 475,139 | 1977----- | 386,441 |
| 1973----- | 465,417 | 1978----- | 320,633 |
| 1974----- | 433,873 | 1979----- | 443,895 |
| 1975----- | 244,963 | 1980----- | 445,889 |

## FREIGHT TRAFFIC, 1980

## DOMESTIC

## (SHORT TONS)

| COMMODITY                     | TOTAL   | LAKEWISE |           |
|-------------------------------|---------|----------|-----------|
|                               |         | RECEIPTS | SHIPMENTS |
| TOTAL-----                    | 445,889 | 368,367  | 77,522    |
| 1121 COAL AND LIGNITE-----    | 11,925  | 11,925   | -----     |
| 1411 LIMESTONE-----           | 172,030 | 172,030  | -----     |
| 2914 DISTILLATE FUEL OIL----- | 11,698  | 4,935    | 6,763     |
| 2915 RESIDUAL FUEL OIL-----   | 78,069  | 7,310    | 70,759    |
| 3241 BUILDING CEMENT-----     | 98,167  | 98,167   | -----     |
| 3312 SLAB-----                | 81,200  | 81,200   | -----     |

## ALPENA HARBOR, MICH.

SECTION INCLUDED: LOWER 4,000 FEET OF RIVER AND PRIVATE HARBORS NORTH OF MOUTH OF THUNDER BAY RIVER, CONTROLLING DEPTH: 25 FEET IN THE BAY SECTION; 17 FEET IN RIVER; 15 FEET IN TURNING BASIN. PROJECT DEPTHS: CHANNEL 24 FEET DEEP FROM THAT DEPTH IN THUNDER BAY TO A POINT 2,500 FEET LAKEWARD OF THE LIGHTHOUSE; THENCE 23 FEET IN RIVER NARROWING TO 100-FOOT WIDTH AT A POINT 700 FEET UPSTREAM FROM THE LIGHTHOUSE; THENCE 100 FEET WIDE AND 22 FEET DEEP TO THE SECOND AVE. BRIDGE; THENCE 18.5 FEET DEEP AND 75 FEET WIDE TO THE UPPER LIMITS OF THE PROJECT; A TURNING BASIN 15 FEET DEEP BY 3.7 ACRES AT THE UPPER END OF PROJECT; AND A TURNING BASIN 18 FEET DEEP AT THE RIVER MOUTH. NAVIGATION SEASON: MARCH 15 TO DECEMBER 17.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS      |
|-----------|-----------|-----------|-----------|
| 1971----- | 3,637,720 | 1976----- | 2,835,479 |
| 1972----- | 3,380,410 | 1977----- | 3,084,934 |
| 1973----- | 2,853,883 | 1978----- | 3,283,682 |
| 1974----- | 3,082,304 | 1979----- | 2,942,149 |
| 1975----- | 2,855,580 | 1980----- | 2,737,030 |

## FREIGHT TRAFFIC, 1980

## (SHORT TONS)

|  |           | (MOUNT TONS) |         |          |           |       |  |
|--|-----------|--------------|---------|----------|-----------|-------|--|
| COMMODITY                              | TOTAL     | FOREIGN      |         | DOMESTIC |           | LOCAL |  |
|  |           | CANADIAN     |         | LAKEWISE |           |       |  |
|  |           | IMPORTS      | EXPORTS | RECEIPTS | SHIPMENTS |       |  |
| TOTAL-----                             | 2,737,030 | 2,783        | 7,350   | 639,900  | 2,086,934 | 63    |  |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 63        | -----        | -----   | -----    | -----     | 63    |  |
| 1011 IRON ORE AND CONCENTRATES-----    | 12,296    | -----        | -----   | 12,296   | -----     | ----- |  |
| 1121 COAL AND LIGNITE-----             | 582,195   | -----        | -----   | 582,195  | -----     | ----- |  |
| 1499 NONMETALLIC MINERALS, NEC-----    | 27,684    | -----        | -----   | 27,684   | -----     | ----- |  |
| 2911 GASOLINE-----                     | 17,725    | -----        | -----   | 17,725   | -----     | ----- |  |
| 2915 RESIDUAL FUEL OIL-----            | 2,783     | 2,783        | -----   | -----    | -----     | ----- |  |
| 3241 BUILDING CEMENT-----              | 2,094,284 | -----        | 7,350   | -----    | 2,086,934 | ----- |  |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

## SAGINAW RIVER, MICH.

SECTION INCLUDED: FROM THE MOUTH OF THE RIVER TO AND INCLUDING SAGINAW, MICHIGAN. CONTROLLING DEPTHS: 27 FEET FROM THE 25 FOOT CONTOUR IN SAGINAW BAY TO 19 FEET AT THE RIVER MOUTH 4 - 5 FEET MISC. SHOALING ALONG CHANNEL LIMITS; THENCE 24 FEET TO THE PENN CENTRAL R.R. BRIDGE; THENCE 22 FEET TO THE C&O R.R. BRIDGE IN SAGINAW, MICHIGAN; THENCE 16 FEET TO THE HOLLAND STREET BRIDGE; THENCE ABOUT 7 FEET OVER A WIDTH OF 100 FEET UPSTREAM TO GREEN POINT. CONTROLLING DEPTHS IN TURNING BASINS ARE: ESSEXVILLE - 19 AND 24 FEET; AIRPORT - 21 FEET; CARROLLTON - 19 FEET; SIXTH STREET - 20 FEET; BASIN AT 19 MILE POINT - 15 FEET. PROJECT DEPTHS: 27 FEET FROM THE DEEPWATER IN SAGINAW BAY TO THE RIVER MOUTH; 2 TO 3 FEET OF SHOALING ALONG THE CHANNEL LIMITS FROM THE BT & I R.R. BRIDGE TO MILE 7 IN THE BAY SECTION; THENCE 26 FEET FOR 0.4 MILE; THENCE 28 FEET TO THE PENN CENTRAL R.R. BRIDGE; THENCE 22 FEET TO THE C&O R.R. BRIDGE IN SAGINAW; THENCE 16.5 FEET TO THE UPSTREAM LIMIT AT GREEN POINT; 20 AND 25 FEET IN ESSEXVILLE TURNING BASIN; 22 FEET IN THE AIRPORT TURNING BASIN; 20 FEET IN THE CARROLLTON TURNING BASIN; 20 FEET IN THE SIXTH STREET TURNING BASIN AND 19 FEET IN THE TURNING BASIN AT THE 19 MILE POINT. NAVIGATION SEASON: MARCH 24 TO DECEMBER 31.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS      |
|-----------|-----------|-----------|-----------|
| 1971----- | 4,847,133 | 1976----- | 3,072,473 |
| 1972----- | 4,386,273 | 1977----- | 3,696,238 |
| 1973----- | 4,095,978 | 1978----- | 3,173,573 |
| 1974----- | 4,180,075 | 1979----- | 4,046,126 |
| 1975----- | 2,705,330 | 1980----- | 3,081,260 |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL     | FOREIGN  |         |          |         | DOMESTIC  |           |           |         |
|---|-----------|----------|---------|----------|---------|-----------|-----------|-----------|---------|
|   |           | OVERSEAS |         | CANADIAN |         | LAKEWISE  |           | INTERNAL  | LOCAL   |
|   |           | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS | RECEIPTS  | SHIPMENTS | SHIPMENTS |         |
| TOTAL-----                              | 3,081,260 | 5,889    | 34,390  | 314,116  | 312,000 | 2,062,138 | 93,728    | 788       | 298,307 |
| 0103 CORN-----                          | 125,325   |          |         |          | 125,325 |           |           |           |         |
| 0107 WHEAT-----                         | 59,437    |          |         |          | 59,437  |           |           |           |         |
| 0111 SOYBEANS-----                      | 75,374    |          |         |          | 75,374  |           |           |           |         |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 4         |          |         |          |         |           |           |           | 4       |
| 1121 COAL AND LIGNITE-----              | 637,704   |          |         |          |         | 637,704   |           |           |         |
| 1411 LIMESTONE-----                     | 1,222,428 |          |         |          |         | 1,222,428 |           |           |         |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 298,303   |          |         |          |         |           |           |           | 298,303 |
| 1499 NONMETALLIC MINERALS, NEC-----     | 39,530    |          |         | 39,530   |         |           |           |           |         |
| 2042 PREPARED ANIMAL FEEDS-----         | 21,864    |          | 21,864  |          |         |           |           |           |         |
| 2211 BASIC TEXTILE PRODUCTS-----        | 1,944     | 1,944    |         |          |         |           |           |           |         |
| 2817 BENZENE AND TOLUENE-----           | 19,110    |          |         |          |         | 19,110    |           |           |         |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 198,459   |          | 7,569   | 45,428   | 51,864  | 53,598    |           |           |         |
| 2821 PLASTIC MATERIALS-----             | 1,260     |          | 1,260   |          |         |           |           |           |         |
| 2841 SOAP-----                          | 1,984     |          | 1,984   |          |         |           |           |           |         |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 22,909    |          |         |          |         | 22,909    |           |           |         |
| 2872 POTASSIC CHEM FERTILIZERS-----     | 11,211    |          |         |          |         | 11,211    |           |           |         |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 56,892    |          |         | 56,892   |         |           |           |           |         |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 381       |          | 381     |          |         |           |           |           |         |
| 2911 GASOLINE-----                      | 23,532    |          |         |          |         | 23,532    |           |           |         |
| 2912 JET FUEL-----                      | 13,913    |          |         |          |         |           | 13,913    |           |         |
| 2914 DISTILLATE FUEL OIL-----           | 25,973    |          |         |          |         | 18,680    | 7,293     |           |         |
| 2915 RESIDUAL FUEL OIL-----             | 5,643     |          |         |          |         | 5,643     |           |           |         |
| 2917 NAPHTHA, PETROLEUM SOLVENTS-----   | 32,527    |          |         |          |         |           | 32,527    |           |         |
| 3241 BUILDING CEMENT-----               | 209,063   |          |         | 172,248  |         | 36,815    |           |           |         |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 8         | 8        |         |          |         |           |           |           |         |
| 3312 SLAG-----                          | 10,500    |          |         |          |         | 10,500    |           |           |         |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 1,596     | 1,596    |         |          |         |           |           |           |         |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 627       |          | 627     |          |         |           |           |           |         |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 259       |          | 259     |          |         |           |           |           |         |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 772       |          | 772     |          |         |           |           |           |         |
| 3411 FABRICATED METAL PRODUCTS-----     | 832       |          | 132     |          |         |           |           | 700       |         |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 1,750     |          | 418     | 1,332    |         |           |           |           |         |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 17        |          |         | 17       |         |           |           |           |         |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 133       |          | 133     |          |         |           |           |           |         |
| 4112 COMMODITIES, NEC-----              | 1         |          |         | 1        |         |           |           |           |         |

## ST. CLAIR RIVER, MICH.

SECTION INCLUDED: ENTIRE LENGTH OF ST. CLAIR RIVER AND BLACK RIVER UP TO WASHINGTON AVENUE IN PORT HURON; CONTROLLING DEPTHS: 27 TO 30 FEET IN ST. CLAIR RIVER AT PORT HURON AND 20 FEET IN BLACK RIVER.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TRAFFIC OF PORTS |            | THROUGH TRAFFIC |            | TOTAL       |            |
|-----------|------------------|------------|-----------------|------------|-------------|------------|
|           | TONS             | PASSENGERS | TONS            | PASSENGERS | TONS        | PASSENGERS |
| 1971----- | 5,688,999        | 212,853    | 97,203,128      |            | 102,892,128 | 202,853    |
| 1972----- | 5,600,885        | 243,663    | 100,863,737     | 10         | 106,464,622 | 243,673    |
| 1973----- | 4,572,884        | 258,866    | 114,336,877     |            | 118,909,761 | 258,866    |
| 1974----- | 4,211,684        | 252,047    | 97,233,746      | 182        | 101,445,430 | 252,229    |
| 1975----- | 3,411,744        | 235,590    | 88,099,532      |            | 91,511,276  | 235,590    |
| 1976----- | 4,303,948        | 269,489    | 92,058,242      | 2,608      | 96,368,190  | 272,097    |
| 1977----- | 5,746,025        | 282,098    | 77,004,441      |            | 82,750,466  | 282,096    |
| 1978----- | 4,845,300        | 268,778    | 102,023,236     | 962        | 106,868,536 | 269,741    |
| 1979----- | 4,845,646        | 281,784    | 107,845,489     |            | 112,691,057 | 281,784    |
| 1980----- | 5,318,169        | 298,752    | 83,892,184      |            | 89,210,353  | 298,752    |

## DETROIT, MICH., DISTRICT

39

ST. CLAIR RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1960

UPBOUND

(SHORT TONS)

| COMMODITY                               | TOTAL      | THROUGH TRAFFIC |           |           |       | RECEIPTS AND SHIPMENTS |          |          |  |
|---|------------|-----------------|-----------|-----------|-------|------------------------|----------|----------|--|
|   |            | FOREIGN         |           | DOMESTIC  |       | FOREIGN                |          | DOMESTIC |  |
|   |            | OVERSEAS        | CANADIAN  | LAKESIDE  | CYREN | OVERSEAS               | CANADIAN | LAKESIDE |  |
| TOTAL-----                              | 17,807,193 | 930,810         | 8,794,193 | 6,942,011 | 288   | 94                     | 328,792  | 819,693  |  |
| 0103 CORN-----                          | 21,679     |                 |           | 21,679    |       |                        |          |          |  |
| 0105 RICE-----                          | 13         |                 |           |           |       |                        |          |          |  |
| 0121 TOBACCO, LEAF-----                 | 9,189      | 7,903           |           | 1,123     |       |                        |          | 903      |  |
| 0129 FIELD CROPS, NEC-----              | 110        |                 |           |           |       |                        |          |          |  |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 16         |                 |           |           |       |                        |          |          |  |
| 0141 ANIMALS AND PRODUCTS, NEC-----     | 140        |                 |           |           |       |                        |          |          |  |
| 0191 MISCELLANEOUS FARM PRODUCTS-----   | 23         |                 |           |           |       |                        |          |          |  |
| 0801 FOREST PRODUCTS, NEC-----          | 28         |                 |           |           |       |                        |          |          |  |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 1          |                 |           | 1         |       |                        |          |          |  |
| 1011 IRON ORE AND CONCENTRATES-----     | 1,937,749  | 147,274         | 1,304,083 |           |       |                        | 86,388   |          |  |
| 1021 COPPER ORE AND CONCENTRATES-----   | 131        |                 |           |           |       |                        | 131      |          |  |
| 1051 ALUMINUM ORES, CONCENTRATES-----   | 8          |                 |           |           |       |                        |          |          |  |
| 1121 COAL AND LIGNITE-----              | 13,106,021 |                 | 6,086,688 | 6,352,937 |       |                        |          | 667,196  |  |
| 1411 LIMESTONE-----                     | 123,324    |                 | 16,724    | 22,000    |       |                        |          | 84,600   |  |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 920        |                 | 330       | 180       |       |                        |          |          |  |
| 1451 CLAY-----                          | 205        |                 |           |           |       |                        |          |          |  |
| 1499 NONMETALLIC MINERALS, NEC-----     | 809,266    |                 | 667,776   | 141,402   |       |                        |          |          |  |
| 1911 ORDNANCE AND ACCESSORIES-----      | 10         |                 |           |           |       |                        |          |          |  |
| 2012 MEAT AND PRODUCTS, NEC-----        | 3          |                 |           |           |       |                        |          |          |  |
| 2031 FISH AND SHELLFISH, PREPARED-----  | 43         |                 |           |           |       |                        |          |          |  |
| 2034 VEGETABLES AND PREP, NEC-----      | 1,251      | 1,189           |           | 22        |       |                        |          |          |  |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 57         |                 |           | 28        |       |                        |          |          |  |
| 2042 PREPARED ANIMAL FEEDS-----         | 460        |                 |           |           |       |                        |          |          |  |
| 2046 GRAIN MILL PRODUCTS, NEC-----      | 173        |                 | 122       | 91        |       |                        |          |          |  |
| 2081 ALCOHOLIC BEVERAGES-----           | 17,188     | 16,805          | 383       |           |       |                        |          |          |  |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 68         |                 |           |           |       |                        |          |          |  |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 1,737      | 1,651           | 65        |           |       |                        |          |          |  |
| 2211 BASIC TEXTILE PRODUCTS-----        | 30,033     | 29,990          | 43        |           |       |                        |          |          |  |
| 2212 TEXTILE FIBERS, NEC-----           | 1,066      | 1,066           |           |           |       |                        |          |          |  |
| 2311 APPAREL-----                       | 26         |                 |           |           |       |                        |          |          |  |
| 2413 FUEL WOOD, CHARCOAL, WASTES-----   | 266        | 248             | 18        |           |       |                        |          |          |  |
| 2416 WOOD CHIPS, STAVES, MOLDINGS-----  | 1,660      |                 | 1,660     |           |       |                        |          |          |  |
| 2421 LUMBER-----                        | 107        |                 |           |           |       |                        |          |          |  |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 44         |                 |           |           |       |                        |          |          |  |
| 2491 WOOD MANUFACTURES, NEC-----        | 392        |                 |           |           |       |                        |          |          |  |
| 2911 FURNITURE AND FIXTURES-----        | 182        |                 | 11        |           |       |                        |          |          |  |
| 2811 PULP-----                          | 4,503      |                 |           |           |       |                        |          |          |  |
| 2831 PAPER AND PAPERBOARD-----          | 74,321     | 33,792          | 40,929    |           |       |                        |          |          |  |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 13         |                 |           |           |       |                        |          |          |  |
| 2711 PRINTED MATTER-----                | 187        |                 |           |           |       |                        |          |          |  |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 32,423     |                 | 17,718    | 14,705    |       |                        |          | 122      |  |
| 2817 BENZENE AND TOLUENE-----           | 36,467     |                 |           | 36,147    |       |                        |          |          |  |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 295,754    | 7,299           | 248,432   |           |       |                        |          |          |  |
| 2821 PLASTIC MATERIALS-----             | 360        | 277             | 83        |           |       |                        |          |          |  |
| 2831 DRUGS-----                         | 309        |                 | 258       | 51        |       |                        |          |          |  |
| 2841 SOAP-----                          | 199        |                 |           |           |       |                        |          |          |  |
| 2851 PAINTS-----                        | 1,230      | 1,188           | 22        |           |       |                        |          |          |  |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 13,600     |                 | 13,600    |           |       |                        |          |          |  |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 85         |                 |           |           |       |                        |          |          |  |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 65         |                 |           |           |       |                        |          |          |  |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 36,592     | 4,656           | 31,936    |           |       |                        |          |          |  |
| 2911 GASOLINE-----                      | 44,413     |                 |           | 44,413    |       |                        |          |          |  |
| 2912 JET FUEL-----                      | 121,448    |                 |           | 121,448   |       |                        |          |          |  |
| 2914 DISTILLATE FUEL OIL-----           | 13,321     |                 |           | 1,737     |       |                        |          |          |  |
| 2915 RESIDUAL FUEL OIL-----             | 415,712    |                 | 2,799     | 123,624   |       |                        |          | 11,584   |  |
| 2916 LUBRICATING OILS AND GREASES-----  | 40,472     | 20              | 40,452    |           |       |                        |          | 55,713   |  |
| 2918 ASPHALT, TAR, AND PITCHES-----     | 61,645     |                 |           | 61,645    |       |                        |          |          |  |
| 2920 COKE, PETROLEUM COKE-----          | 17,535     | 17,535          |           |           |       |                        |          |          |  |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 33         |                 |           |           |       |                        |          |          |  |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 343        | 309             | 23        |           |       |                        |          |          |  |
| 3111 LEATHER AND LEATHER PRODUCTS-----  | 487        |                 | 22        |           |       |                        |          |          |  |
| 3211 GLASS AND GLASS PRODUCTS-----      | 1,929      | 1,906           |           |           |       |                        |          |          |  |
| 3241 BUILDING CEMENT-----               | 234,932    |                 | 234,932   |           |       |                        |          |          |  |
| 3291 STRUCTURAL CLAY PRODUCTS-----      | 628        |                 |           |           |       |                        |          |          |  |
| 3291 CUT STONE AND STONE PRODUCTS-----  | 1,526      | 1,526           |           |           |       |                        |          |          |  |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 242        |                 | 16        |           |       |                        |          |          |  |
| 3312 SLAG-----                          | 21,953     |                 |           | 21,953    |       |                        |          |          |  |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 9,855      | 9,839           | 16        |           |       |                        |          |          |  |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 488,750    | 487,810         | 940       |           |       |                        |          |          |  |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 2,465      | 2,465           |           |           |       |                        |          |          |  |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 12,531     | 12,511          | 20        |           |       |                        |          |          |  |
| 3318 FERROALLOYS-----                   | 132,197    | 76,148          | 56,009    |           |       |                        |          |          |  |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 6,740      | 6,740           |           |           |       |                        |          |          |  |
| 3321 NONFERROUS METALS, NEC-----        | 1,250      |                 |           |           |       |                        |          |          |  |
| 3322 COPPER ALLOYS, UNWORKED-----       | 571        | 569             | 2         |           |       |                        |          |          |  |
| 3323 LEAD AND ZINC, UNWORKED-----       | 11,279     | 10,844          | 435       |           |       |                        |          |          |  |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 4,826      | 998             | 3,828     |           |       |                        |          |          |  |
| 3411 FABRICATED METAL PRODUCTS-----     | 5,817      | 5,692           | 163       |           |       |                        |          |          |  |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 20,869     | 19,733          | 928       |           |       |                        |          |          |  |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 1,344      | 1,272           | 42        |           |       |                        |          |          |  |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 2,781      | 2,740           | 40        |           |       |                        |          |          |  |
| 3721 AIRCRAFT AND PARTS-----            | 2          |                 |           |           |       |                        |          |          |  |
| 3731 SHIPS AND BOATS-----               | 2          |                 |           |           |       |                        |          |          |  |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 7,560      | 7,212           | 348       |           |       |                        |          |          |  |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 26         |                 |           |           |       |                        |          |          |  |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 890        | 883             | 7         |           |       |                        |          |          |  |
| 4112 COMMODITIES, NEC-----              | 1,134      | 941             | 193       |           |       |                        |          |          |  |

ST. CLAIR RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

DOWNBOUND

(SHORT TONS)

| COMMODITY                               | TOTAL      | THROUGH TRAFFIC |            |            | RECEIPTS AND SHIPMENTS |           |           |        |
|---|------------|-----------------|------------|------------|------------------------|-----------|-----------|--------|
|   |            | FOREIGN         |            | DOMESTIC   | FOREIGN                |           | DOMESTIC  |        |
|   |            | OVERSEAS        | CANADIAN   | LAKEWISE   | OVERSEAS               | CANADIAN  | LAKEWISE  | OTHER  |
| TOTAL-----                              | 71,203,200 | 5,952,697       | 11,012,719 | 56,059,554 | 23,956                 | 329,543   | 3,808,076 | 15,855 |
| 0101 COTTON, RAW-----                   | 1,534      |                 |            |            |                        | 1,534     |           |        |
| 0102 BARLEY AND RYE-----                | 1,086,232  | 488,323         | 478,982    | 118,927    |                        |           |           |        |
| 0103 CORN-----                          | 3,202,506  | 841,429         | 2,360,968  |            |                        |           |           |        |
| 0104 OATS-----                          | 68,266     | 95,982          | 9,939      | 3,004      |                        |           |           |        |
| 0105 RICE-----                          | 15         |                 |            |            |                        |           |           |        |
| 0107 WHEAT-----                         | 5,104,727  | 1,868,331       | 1,836,290  | 1,407,106  |                        |           |           |        |
| 0111 SOYBEANS-----                      | 247,318    | 191,606         | 95,669     |            |                        |           |           |        |
| 0119 OILSEEDS, NEC-----                 | 1,367,633  | 1,367,633       |            |            |                        |           |           |        |
| 0129 FIELD CROPS, NEC-----              | 12         |                 |            |            |                        |           |           |        |
| 0131 FRESH FRUITS AND TREE NUTS-----    | 4,113      |                 |            |            |                        | 4,113     |           |        |
| 0132 BANANAS AND PLANTAINS-----         | 60         |                 |            |            |                        | 60        |           |        |
| 0133 COFFEE-----                        | 8          |                 |            |            |                        | 8         |           |        |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 9,272      | 352             | 280        |            | 3,710                  | 4,930     |           |        |
| 0141 ANIMALS AND PRODUCTS, NEC-----     | 3,374      | 3,095           | 31         |            |                        | 248       |           |        |
| 0191 MISCELLANEOUS FARM PRODUCTS-----   | 78         | 2               |            |            |                        | 76        |           |        |
| 0841 CRUDE RUBBER AND ALLIED GUMS-----  | 3,012      |                 |            |            |                        | 3,012     |           |        |
| 0841 FOREST PRODUCTS, NEC-----          | 22         | 2               |            |            |                        | 20        |           |        |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 199        | 199             |            |            |                        |           |           |        |
| 0912 SHELLFISH, EXCEPT PREPARED-----    | 4          | 4               |            |            |                        |           |           |        |
| 1011 IRON ORE AND CONCENTRATES-----     | 41,351,202 |                 | 3,262,695  | 36,088,507 |                        |           |           |        |
| 1051 ALUMINUM ORES, CONCENTRATES-----   | 701        | 1               |            |            |                        | 790       |           |        |
| 1121 COAL AND LIGNITE-----              | 3,360,142  |                 |            | 53,852     | 6,297                  | 3,300,763 |           |        |
| 1411 LIMESTONE-----                     | 9,844,918  |                 | 1,050,814  | 6,431,777  |                        | 734       | 361,993   |        |
| 1412 BUILDING STONE, UNWORKED-----      | 38         |                 |            |            |                        |           |           |        |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 382,034    | 286             | 12,596     | 357,253    |                        | 11,899    |           |        |
| 1451 CLAY-----                          | 320,618    | 138,746         | 169,326    |            |                        | 12,546    |           |        |
| 1492 SULPHUR, DRY-----                  | 2          |                 |            |            |                        |           |           |        |
| 1494 GYPSUM, CRUDE AND PLASTERS-----    | 529,528    |                 |            | 529,528    |                        |           |           |        |
| 1499 NONMETALLIC MINERALS, NEC-----     | 6,657      | 66              | 1,167      |            |                        | 5,424     |           |        |
| 1811 ORDNANCE AND ACCESSORIES-----      | 19         |                 |            |            |                        |           |           |        |
| 2011 MEAT, FRESH, CHILLED, FROZEN-----  | 39,008     | 38,993          | 5          |            |                        | 8         |           |        |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 77,250     | 77,208          | 193        |            | 10                     | 39        |           |        |
| 2019 ANIMAL BY-PRODUCTS, NEC-----       | 1,761      | 1,486           | 197        |            |                        | 78        |           |        |
| 2021 DAIRY PRODUCTS, NEC-----           | 350        |                 |            |            |                        |           |           |        |
| 2022 DRIED MILK AND CREAM-----          | 14,092     | 14,081          |            |            |                        | 11        |           |        |
| 2031 FISH AND SHELLFISH, PREPARED-----  | 39         |                 |            |            |                        | 39        |           |        |
| 2034 VEGETABLES AND PREP, NEC-----      | 1,114      | 301             | 88         |            |                        | 725       |           |        |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 5,360      | 438             |            |            |                        | 4,922     |           |        |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 31,232     | 30,949          | 283        |            |                        |           |           |        |
| 2042 PREPARED ANIMAL FEEDS-----         | 92,930     | 66,887          | 64         |            | 17,180                 | 8,259     |           |        |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 132,273    | 128,924         | 978        |            |                        | 2,371     |           |        |
| 2082 MOLASSES-----                      | 25         |                 |            |            |                        | 25        |           |        |
| 2081 ALCOHOLIC BEVERAGES-----           | 311        | 106             | 17         |            |                        | 188       |           |        |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 6,447      | 5,402           | 127        |            |                        | 918       |           |        |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 14,878     | 12,455          | 1,295      |            |                        | 1,128     |           |        |
| 2211 BASIC TEXTILE PRODUCTS-----        | 1,239      | 388             | 73         |            | 3                      | 775       |           |        |
| 2212 TEXTILE FIBERS, NEC-----           | 134        |                 |            |            |                        | 134       |           |        |
| 2311 APPAREL-----                       | 1,395      | 1,366           | 7          |            | 18                     | 4         |           |        |
| 2411 LOGS-----                          | 26,677     | 25,955          |            |            |                        | 722       |           |        |
| 2413 FUEL WOOD, CHARCOAL, WASTES-----   | 392        |                 |            |            |                        | 392       |           |        |
| 2414 TIMBER, POSTS, POLES, PILING-----  | 4,446      |                 |            |            |                        | 4,446     |           |        |
| 2416 WOOD CHIPS, STAVES, HOLDINGS-----  | 1,380      |                 |            |            |                        | 1,380     |           |        |
| 2421 LUMBER-----                        | 10,845     | 1,848           | 11         |            |                        | 8,986     |           |        |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 7,265      | 6               | 6,962      |            |                        | 287       |           |        |
| 2491 WOOD MANUFACTURES, NEC-----        | 3,542      | 1,008           | 25         |            |                        | 2,509     |           |        |
| 2511 FURNITURE AND FIXTURES-----        | 662        | 98              | 11         |            | 15                     | 536       |           |        |
| 2611 PULP-----                          | 2,121      | 666             |            |            | 231                    | 1,224     |           |        |
| 2631 PAPER AND PAPERBOARD-----          | 57,341     | 6,449           | 48,893     |            |                        | 2,039     |           |        |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 889        | 193             | 66         |            | 2                      | 628       |           |        |
| 2711 PRINTED MATTER-----                | 4,568      | 1,111           | 91         |            |                        | 3,366     |           |        |
| 2812 DYES, PIGMENT, TANNING MATS-----   | 14         |                 |            |            |                        | 14        |           |        |
| 2813 ALCOHOLS-----                      | 100        |                 |            |            |                        | 100       |           |        |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 172,248    | 9,387           | 46,750     |            | 11                     | 116,100   |           |        |
| 2821 PLASTIC MATERIALS-----             | 18,302     | 2,008           | 65         |            | 311                    | 15,918    |           |        |
| 2822 SYNTHETIC RUBBER-----              | 6,880      |                 | 67         |            |                        | 6,813     |           |        |
| 2823 SYNTHETIC (MAN-MADE) FIBERS-----   | 61         |                 |            |            |                        | 61        |           |        |
| 2831 DRUGS-----                         | 206        | 166             | 7          |            |                        | 33        |           |        |
| 2841 SOAP-----                          | 3,169      | 2,230           | 143        |            |                        | 796       |           |        |
| 2851 PAINTS-----                        | 1,777      | 91              | 43         |            |                        | 1,603     |           |        |
| 2861 GUN AND WOOD CHEMICALS-----        | 2,959      | 20              | 16         |            |                        | 2,923     |           |        |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 4,551      |                 | 4,200      |            |                        | 351       |           |        |
| 2872 POTASSIC CHEM FERTILIZERS-----     | 373        |                 |            |            |                        | 373       |           |        |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 370,218    |                 | 367,724    |            |                        | 2,494     |           |        |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 700        | 2               | 48         |            |                        | 650       |           |        |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 209        |                 |            |            |                        | 209       |           |        |
| 2891 MISCELLANEOUS "CHEMICAL PROD-----  | 21,076     | 2,333           | 510        |            | 21                     | 18,232    |           |        |
| 2911 GASOLINE-----                      | 3,745      | 25              |            |            |                        | 3,720     |           |        |
| 2914 DISTILLATE FUEL OIL-----           | 14,253     |                 | 14,253     |            |                        |           |           |        |
| 2919 RESIDUAL FUEL OIL-----             | 366,311    |                 | 196,050    | 7,886      |                        | 146,520   | 15,855    |        |
| 2916 LUBRICATING OILS AND GREASES-----  | 17,664     | 173             | 16,067     |            |                        | 1,424     |           |        |
| 2918 ASPHALT, TAR, AND BITUMENS-----    | 94,135     | 103             | 94,032     |            |                        |           |           |        |
| 2920 COKE, PETROLEUM COKE-----          | 1,284,154  | 210,165         | 976,251    | 92,454     |                        | 5,284     |           |        |
| 2921 LIQUEFIED GASES-----               | 1,447      | 60              |            |            |                        | 1,387     |           |        |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 29         | 10              |            |            |                        | 19        |           |        |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 5,318      | 241             | 266        |            | 4                      | 4,867     |           |        |
| 3111 LEATHER AND LEATHER PRODUCTS-----  | 331        | 218             | 96         |            |                        | 17        |           |        |
| 3211 GLASS AND GLASS PRODUCTS-----      | 1,059      | 196             | 4          |            |                        | 859       |           |        |
| 3241 BUILDING CEMENT-----               | 868,038    | 6               | 5,530      | 861,926    |                        | 606       |           |        |
| 3251 STRUCTURAL CLAY PRODUCTS-----      | 1,725      |                 |            |            |                        | 1,725     |           |        |
| 3271 LIME-----                          | 51         |                 |            |            |                        | 51        |           |        |
| 3281 CUT STONE AND STONE PRODUCTS-----  | 133        | 132             |            |            |                        | 1         |           |        |

## DETROIT, MICH., DISTRICT

41

ST. CLAIR RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

DOWNBOUND--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL   | THROUGH TRAFFIC |          |          | RECEIPTS AND SHIPMENTS |          |          |       |
|---|---------|-----------------|----------|----------|------------------------|----------|----------|-------|
|   |         | FOREIGN         |          | DOMESTIC | FOREIGN                |          | DOMESTIC |       |
|   |         | OVERSEAS        | CANADIAN | LAKEWISE | OVERSEAS               | CANADIAN | LAKEWISE | BYMEN |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 651     | 77              | 9        |          |                        | 569      |          |       |
| 3312 SLAG-----                          | 18,900  |                 |          | 18,900   |                        |          |          |       |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 4,482   | 4,480           |          |          |                        | 2        |          |       |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 2,189   | 1,970           |          |          |                        | 619      |          |       |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 197,114 | 144,079         | 11,982   |          |                        | 1,087    |          |       |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 342     | 178             | 13       |          |                        | 171      |          |       |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 3,344   | 213             | 2,744    |          |                        | 345      |          |       |
| 3321 NONFERROUS METALS, NEC-----        | 240     | 124             | 30       |          | 14                     | 90       |          |       |
| 3322 COPPER ALLOYS, UNWORKED-----       | 1,148   | 49              | 19       |          |                        | 1,080    |          |       |
| 3323 LEAD AND ZINC, UNWORKED-----       | 1,653   | 1,653           |          |          |                        |          |          |       |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 598     | 10              | 108      |          |                        | 440      |          |       |
| 3411 FABRICATED METAL PRODUCTS-----     | 4,673   | 1,702           | 515      | 572      | 42                     | 1,842    |          |       |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 33,812  | 21,929          | 1,199    |          | 1,190                  | 9,894    |          |       |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 9,231   | 5,066           | 232      |          | 242                    | 3,691    |          |       |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 22,168  | 3,997           | 159      |          | 806                    | 17,206   |          |       |
| 3721 AIRCRAFT AND PARTS-----            | 33      | 8               |          |          |                        | 25       |          |       |
| 3731 SHIPS AND BOATS-----               | 70      | 68              |          |          |                        | 2        |          |       |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 1,333   | 148             | 54       |          | 6                      | 1,125    |          |       |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 581     | 198             | 44       |          | 24                     | 317      |          |       |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 1,346   | 368             | 143      |          |                        | 835      |          |       |
| 4011 IRON AND STEEL SCRAP-----          | 237,705 | 207,890         | 28,984   |          |                        | 831      |          |       |
| 4012 NONFERROUS METAL SCRAP-----        | 2,075   | 1,532           | 143      |          | 72                     | 328      |          |       |
| 4022 TEXTILE WASTE, SCRAP, SWEEP-----   | 29      |                 |          |          |                        | 29       |          |       |
| 4024 PAPER WASTE AND SCRAP-----         | 3,577   |                 |          |          | 44                     | 3,533    |          |       |
| 4112 COMMODITIES, NEC-----              | 606     |                 |          |          |                        | 908      |          |       |
| 9999 DEPARTMENT OF DEFENSE AND SCI----- | 130     | 92              | 6        |          |                        | 14       |          |       |

TONS, ALL TRAFFIC, 89,010,353.  
TON-MILES, ALL TRAFFIC, 3,174,690,562.

PORT HURON, MICH. (INCLUDED IN ST. CLAIR RIVER)

SECTION INCLUDED: WEST BANK OF THE ST. CLAIR RIVER FROM MOUTH OF RIVER TO GRAND TRUNK WESTERN RAILROAD BRIDGE AND BOTH BANKS OF THE BLACK RIVER UP TO WASHINGTON AVENUE IN PORT HURON, MICHIGAN. CONTROLLING DEPTHS: FROM LAKE ST. CLAIR TO STAG ISLAND, 27.1 FEET, IN THE STAG ISLAND TO PORT HURON CHANNEL AND THE FOOT OF LAKE HURON CHANNEL, 27.3 FEET AND 30 FEET RESPECTIVELY, IN THE BLACK RIVER, 17 FEET, FOR A WIDTH OF 70 FEET, FROM THE MOUTH TO 1,700 FEET UPSTREAM OF THE GRAND TRUNK WESTERN RAILROAD BRIDGE, AND 15 FEET FOR A WIDTH OF 50 FEET THROUGH THE SETTLING BASIN TO WASHINGTON AVENUE. PROJECT DEPTHS: IN THE ST. CLAIR RIVER, SLOPES FROM 38 FEET AT MOUTH TO 27.5 FEET AT GRAND TRUNK WESTERN RAILROAD BRIDGE. IN THE BLACK RIVER, 20 FEET FROM THE MOUTH TO THE UPPER END OF THE SETTLING BASIN, ABOUT 2,300 FEET UPSTREAM FROM THE GRAND TRUNK WESTERN RAILROAD BRIDGE.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | PASSENGERS | YEAR      | TONS    | PASSENGERS |
|-----------|---------|------------|-----------|---------|------------|
| 1911----- | 886,739 |            | 1976----- | 244,591 | 3,214      |
| 1972----- | 457,217 |            | 1977----- | 325,890 | 4,600      |
| 1973----- | 364,264 | 2,258      | 1978----- | 647,097 |            |
| 1974----- | 308,098 | 3,602      | 1979----- | 894,465 |            |
| 1975----- | 213,613 | 4,416      | 1980----- | 695,640 |            |

FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                              | TOTAL   | FOREIGN  |         |          |         | DOMESTIC |
|--|---------|----------|---------|----------|---------|----------|
|  |         | OVERSEAS |         | CANADIAN |         | LAKEWISE |
|  |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS | RECEIPTS |
| TOTAL-----                             | 695,640 | 94       | 23,956  | 187,684  | 329,551 | 154,355  |
| 0101 COTTON, RAW-----                  | 1,534   |          |         |          | 1,534   |          |
| 0103 CORN-----                         | 109     |          |         |          | 109     |          |
| 0104 OATS-----                         | 141     |          |         |          | 141     |          |
| 0105 RICE-----                         | 15      |          |         |          | 15      |          |
| 0111 SOYBEANS-----                     | 43      |          |         |          | 43      |          |
| 0119 OILSEEDS, NEC-----                | 199     |          |         |          | 199     |          |
| 0121 TOBACCO, LEAF-----                | 503     |          |         | 503      |         |          |
| 0129 FIELD CROPS, NEC-----             | 7       |          |         |          | 7       |          |
| 0131 FRESH FRUITS AND TREE NUTS-----   | 4,113   |          |         |          | 4,113   |          |
| 0132 BANANAS AND PLANTAINS-----        | 60      |          |         |          | 60      |          |
| 0133 COFFEE-----                       | 8       |          |         |          | 8       |          |
| 0141 FRESH AND FROZEN VEGETABLES-----  | 8,640   |          | 3,710   |          | 4,930   |          |
| 0161 ANIMALS AND PRODUCTS, NEC-----    | 248     |          |         |          | 248     |          |
| 0191 MISCELLANEOUS FARM PRODUCTS-----  | 76      |          |         |          | 76      |          |
| 0841 CRUDE RUBBER AND ALLIED GUMS----- | 3,012   |          |         |          | 3,012   |          |
| 0861 FOREST PRODUCTS, NEC-----         | 20      |          |         |          | 20      |          |
| 1011 IRON ORE AND CONCENTRATES-----    | 86,368  |          |         | 86,368   |         |          |
| 1021 COPPER ORE AND CONCENTRATES-----  | 131     |          |         | 131      |         |          |
| 1051 ALUMINUM ORES, CONCENTRATES-----  | 700     |          |         |          | 700     |          |
| 1121 COAL AND LIGNITE-----             | 6,297   |          |         |          | 6,297   |          |
| 1411 LIMESTONE-----                    | 155,089 |          |         |          | 734     | 154,355  |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----   | 11,899  |          |         |          | 11,899  |          |
| 1491 CLAY-----                         | 12,546  |          |         |          | 12,546  |          |
| 1499 NONMETALLIC MINERALS, NEC-----    | 5,424   |          |         |          | 5,424   |          |
| 2011 MEAT, FRESH, CHILLED, FROZEN----- | 8       |          |         |          | 8       |          |
| 2014 TALLOW, ANIMAL FATS AND OILS----- | 49      |          | 10      |          | 39      |          |
| 2015 ANIMAL BY-PRODUCTS, NEC-----      | 78      |          |         |          | 78      |          |



## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

PORT HURON, MICH. (INCLUDED IN ST. CLAIR RIVER)--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

(SHORT TONS)

| COMMODITY                          | TOTAL   | FOREIGN  |         |          |         | DOMESTIC<br>LAKEWISE<br>RECEIPTS |
|------------------------------------|---------|----------|---------|----------|---------|----------------------------------|
|                                    |         | OVERSEAS |         | CANADIAN |         |                                  |
|                                    |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |                                  |
| 2022 DRIED MILK AND CREAM          | 11      |          |         |          |         | 11                               |
| 2031 FISH AND SHELLFISH, PREPARED  | 39      |          |         |          |         | 39                               |
| 2034 VEGETABLES AND PREP, NEC      | 725     |          |         |          |         | 725                              |
| 2039 PREP FRUIT AND VEG JUICE, NEC | 4,922   |          |         |          |         | 4,922                            |
| 2042 PREPARED ANIMAL FEEDS         | 25,439  |          | 17,180  |          |         | 8,259                            |
| 2049 GRAIN MILL PRODUCTS, NEC      | 2,371   |          |         |          |         | 2,371                            |
| 2062 MOLASSES                      | 25      |          |         |          |         | 25                               |
| 2081 ALCOHOLIC BEVERAGES           | 188     |          |         |          |         | 188                              |
| 2091 VEGETABLE OILS, MARG, SHORT   | 918     |          |         |          |         | 918                              |
| 2099 MISCELLANEOUS FOOD PRODUCTS   | 1,149   |          |         | 21       |         | 1,128                            |
| 2211 BASIC TEXTILE PRODUCTS        | 778     |          | 3       |          |         | 775                              |
| 2212 TEXTILE FIBERS, NEC           | 134     |          |         |          |         | 134                              |
| 2311 APPAREL                       | 22      |          | 18      |          |         | 4                                |
| 2411 LOGS                          | 722     |          |         |          |         | 722                              |
| 2413 FUEL WOOD, CHARCOAL, WASTES   | 392     |          |         |          |         | 392                              |
| 2414 TIMBER, POSTS, POLES, PILING  | 4,446   |          |         |          |         | 4,446                            |
| 2416 WOOD CHIPS, STAVES, HOLDINGS  | 1,380   |          |         |          |         | 1,380                            |
| 2421 LUMBER                        | 8,986   |          |         |          |         | 8,986                            |
| 2431 VENEER, PLYWOOD, WORKED WOOD  | 297     |          |         |          |         | 297                              |
| 2491 WOOD MANUFACTURES, NEC        | 2,512   | 3        |         |          |         | 2,509                            |
| 2511 FURNITURE AND FIXTURES        | 593     |          |         | 19       |         | 538                              |
| 2611 PULP                          | 1,455   |          |         | 231      |         | 1,224                            |
| 2631 PAPER AND PAPERBOARD          | 2,039   |          |         |          |         | 2,039                            |
| 2691 PULP AND PAPER PRODUCTS, NEC  | 630     |          |         | 2        |         | 628                              |
| 2711 PRINTED MATTER                | 3,488   |          |         |          |         | 3,488                            |
| 2812 DYES, PIGMENT, TANNING MATS   | 14      |          |         |          |         | 14                               |
| 2813 ALCOHOLS                      | 100     |          |         |          |         | 100                              |
| 2819 BASIC CHEMICALS AND PROD, NEC | 116,018 | 3        | 11      |          |         | 116,004                          |
| 2821 PLASTIC MATERIALS             | 16,229  |          | 311     |          |         | 15,918                           |
| 2822 SYNTHETIC RUBBER              | 6,813   |          |         |          |         | 6,813                            |
| 2823 SYNTHETIC (MAN-MADE) FIBERS   | 61      |          |         |          |         | 61                               |
| 2831 DRUGS                         | 33      |          |         |          |         | 33                               |
| 2841 SOAP                          | 796     |          |         |          |         | 796                              |
| 2851 PAINTS                        | 1,623   | 20       |         |          |         | 1,603                            |
| 2861 GUM AND WOOD CHEMICALS        | 2,923   |          |         |          |         | 2,923                            |
| 2871 NITROGENOUS CHEM FERTILIZERS  | 351     |          |         |          |         | 351                              |
| 2872 POTASSIC CHEM FERTILIZERS     | 373     |          |         |          |         | 373                              |
| 2873 PHOSPHATIC CHEM FERTILIZERS   | 2,494   |          |         |          |         | 2,494                            |
| 2876 INSECTICIDES, DISINFECTANTS   | 650     |          |         |          |         | 650                              |
| 2879 FERTILIZER AND MATERIALS, NEC | 209     |          |         |          |         | 209                              |
| 2891 MISCELLANEOUS CHEMICAL PROD   | 18,213  |          | 21      |          |         | 18,192                           |
| 2911 GASOLINE                      | 3,720   |          |         |          |         | 3,720                            |
| 2919 RESIDUAL FUEL OIL             | 100,641 |          |         | 100,641  |         |                                  |
| 2916 LUBRICATING OILS AND GREASES  | 1,424   |          |         |          |         | 1,424                            |
| 2920 COKE, PETROLEUM COKE          | 5,284   |          |         |          |         | 5,284                            |
| 2921 LIQUEFIED GASES               | 1,387   |          |         |          |         | 1,387                            |
| 2991 PETROLEUM AND COAL PROD, NEC  | 19      |          |         |          |         | 19                               |
| 3011 RUBBER AND MISC PLASTIC PROD  | 4,878   |          | 4       |          |         | 4,878                            |
| 3111 LEATHER AND LEATHER PRODUCTS  | 24      | 7        |         |          |         | 17                               |
| 3211 GLASS AND GLASS PRODUCTS      | 880     | 21       |         |          |         | 859                              |
| 3241 BUILDING CEMENT               | 606     |          |         |          |         | 606                              |
| 3251 STRUCTURAL CLAY PRODUCTS      | 1,725   |          |         |          |         | 1,725                            |
| 3271 LIME                          | 51      |          |         |          |         | 51                               |
| 3281 CUT STONE AND STONE PRODUCTS  | 1       |          |         |          |         | 1                                |
| 3291 MISC NONMETALLIC MINERAL PROD | 565     | 1        |         |          |         | 565                              |
| 3314 IRON AND STEEL PRIMARY FORMS  | 2       |          |         |          |         | 2                                |
| 3315 IRON, STEEL SHAPES, EXC SHEET | 615     |          |         |          |         | 615                              |
| 3316 IRON AND STEEL PLATES, SHEETS | 1,087   |          |         |          |         | 1,087                            |
| 3317 IRON AND STEEL PIPE AND TUBE  | 171     |          |         |          |         | 171                              |
| 3319 IRON AND STEEL PRODUCTS, NEC  | 365     |          |         |          |         | 365                              |
| 3321 NONFERROUS METALS, NEC        | 104     |          | 14      |          |         | 90                               |
| 3322 COPPER ALLOYS, UNWORKED       | 1,080   |          |         |          |         | 1,080                            |
| 3324 ALUMINUM AND ALLOYS, UNWORKED | 440     |          |         |          |         | 440                              |
| 3411 FABRICATED METAL PRODUCTS     | 1,886   | 2        | 42      |          |         | 1,842                            |
| 3511 MACHINERY, EXCEPT ELECTRICAL  | 11,088  |          | 1,190   |          |         | 9,894                            |
| 3611 ELECTRICAL MACH AND EQUIP     | 3,963   | 30       | 242     |          |         | 3,691                            |
| 3711 MOTOR VEHICLES, PARTS, EQUIP  | 18,013  | 1        | 806     |          |         | 17,206                           |
| 3721 AIRCRAFT AND PARTS            | 25      |          |         |          |         | 25                               |
| 3731 SHIPS AND BOATS               | 2       |          |         |          |         | 2                                |
| 3791 MISC TRANSPORTATION EQUIPMENT | 1,131   |          | 6       |          |         | 1,125                            |
| 3811 INSTR, TIME, PHOTO, OPT GOODS | 341     |          | 24      |          |         | 317                              |
| 3911 MISC MANUFACTURED PRODUCTS    | 837     | 2        |         |          |         | 835                              |
| 4011 IRON AND STEEL SCRAP          | 831     |          |         |          |         | 831                              |
| 4012 NONFERROUS METAL SCRAP        | 400     |          | 72      |          |         | 328                              |
| 4022 TEXTILE WASTE, SCRAP, SWEEP   | 29      |          |         |          |         | 29                               |
| 4024 PAPER WASTE AND SCRAP         | 3,548   |          | 44      |          |         | 3,504                            |
| 4112 COMMODITIES, NEC              | 508     |          |         |          |         | 508                              |
| 9999 DEPARTMENT OF DEFENSE AND SCI | 16      |          |         |          |         | 16                               |

## DETROIT, MICH., DISTRICT

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MARYSVILLE, MICH. (INCLUDED IN ST. CLAIR RIVER)

SECTION INCLUDED: WEST BANK OF ST. CLAIR RIVER AT MARYSVILLE, MICH.; CONTROLLING DEPTH: 27.4 FEET; PROJECT DEPTH: AT LOW-WATER DATUM: 27.4 FEET TO AND FROM LAKE HURON; 27.1 FEET DOWNBOUND TO LAKE ST. CLAIR, WITH 2 TO 3 FEET OF SHOALING ALONG SOUTHERN LIMITS OF THE CUT-OFF CHANNEL AT THE INTERSECTION OF LAKE ST. CLAIR.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | YEAR      | TONS    |
|-----------|---------|-----------|---------|
| 1971----- | 678,924 | 1976----- | 516,713 |
| 1972----- | 633,656 | 1977----- | 575,894 |
| 1973----- | 606,591 | 1978----- | 529,920 |
| 1974----- | 577,663 | 1979----- | 425,480 |
| 1975----- | 559,728 | 1980----- | 614,580 |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                   | TOTAL   | FOREIGN | COASTWISE | DOMESTIC |           |
|-----------------------------|---------|---------|-----------|----------|-----------|
|                             |         | IMPORTS | SHIPMENTS | RECEIPTS | SHIPMENTS |
| TOTAL-----                  | 614,580 | 120,669 | 15,855    | 289,339  | 188,717   |
| 1121 COAL AND LIGNITE-----  | 278,720 |         |           | 278,720  |           |
| 2915 RESIDUAL FUEL OIL----- | 335,860 | 120,669 | 15,855    | 10,619   | 188,717   |

ST. CLAIR, MICH. (INCLUDED IN ST. CLAIR RIVER)

SECTION INCLUDED: WEST BANK OF ST. CLAIR RIVER AT ST. CLAIR, MICH.; CONTROLLING DEPTH: 27.3 FEET; PROJECT DEPTH: 27.3 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS      |
|-----------|-----------|-----------|-----------|
| 1971----- | 3,994,987 | 1976----- | 3,555,109 |
| 1972----- | 3,950,487 | 1977----- | 4,586,145 |
| 1973----- | 3,338,058 | 1978----- | 3,519,784 |
| 1974----- | 3,075,056 | 1979----- | 3,286,404 |
| 1975----- | 2,686,497 | 1980----- | 3,726,267 |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                                | TOTAL     | FOREIGN | DOMESTIC |           |
|--|-----------|---------|----------|-----------|
|  |           | IMPORTS | EXPORTS  | RECEIPTS  |
| TOTAL-----                               | 3,726,267 | 12,266  | 125      | 3,713,876 |
| 1121 COAL AND LIGNITE-----               | 3,681,980 |         |          | 3,681,980 |
| 1411 LIMESTONE-----                      | 17,815    |         |          | 17,815    |
| 2819 BASIC CHEMICALS AND PROD., NEC----- | 96        |         |          | 96        |
| 2914 DISTILLATE FUEL OIL-----            | 11,584    |         |          | 11,584    |
| 2915 RESIDUAL FUEL OIL-----              | 15,163    | 12,266  |          | 2,897     |
| 4024 PAPER WASTE AND SCRAP-----          | 29        |         | 29       |           |

MARINE CITY, MICH. (INCLUDED IN ST. CLAIR RIVER)

SECTION INCLUDED: WEST BANK OF ST. CLAIR RIVER AT MARINE CITY, MICH.; 21.5 MILES UPBOUND TO LAKE HURON; 19.2 MILES DOWNBOUND TO LAKE ST. CLAIR, MICH.; CONTROLLING DEPTH: 27 FEET; PROJECT DEPTH (AT LOW WATER DATUM): 27.3 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | PASSENGERS | YEAR      | TONS    | PASSENGERS |
|-----------|---------|------------|-----------|---------|------------|
| 1971----- | 113,772 | 145,699    | 1976----- | 187,535 | 231,634    |
| 1972----- | 159,510 | 202,738    | 1977----- | 258,936 | 229,704    |
| 1973----- | 252,704 | 200,800    | 1978----- | 324,893 | 193,884    |
| 1974----- | 232,521 | 197,291    | 1979----- | 239,299 | 189,620    |
| 1975----- | 145,661 | 208,788    | 1980----- | 281,682 | 215,934    |

## FREIGHT TRAFFIC, 1980

DOMESTIC

(SHORT TONS)

| COMMODITY                  | LAKENISE |
|----------------------------|----------|
|                            | RECEIPTS |
| TOTAL-----                 | 281,682  |
| 1121 COAL AND LIGNITE----- | 7,659    |
| 1411 LIMESTONE-----        | 274,023  |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

## CHANNELS IN LAKE ST. CLAIR

SECTION INCLUDED: IMPROVED SHIP CHANNELS CONNECTING ST. CLAIR RIVER AND DETROIT RIVER ACROSS LAKE ST. CLAIR, ENTRANCE CHANNELS TO MOUTH OF CLINTON RIVER AND THE CANADIAN CHANNEL TO THE MOUTH OF THE THAMES RIVER. CONTROLLING DEPTHS: 27.0 FEET IN THE MAIN CHANNEL WITH 2 FEET TO 3 FEET MISC. SHOALING ALONG CHANNEL LIMITS 6 FEET IN CHANNEL TO CLINTON RIVER. PROJECT DEPTHS: 27.5 FEET IN MAIN CHANNEL AND 6 FEET IN CLINTON RIVER CHANNEL.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS        | PASSENGERS | YEAR | TONS        | PASSENGERS |
|------|-------------|------------|------|-------------|------------|
| 1971 | 101,864,092 | 4          | 1976 | 92,441,331  | 5,822      |
| 1972 | 109,329,967 | 10         | 1977 | 77,647,245  | 4,822      |
| 1973 | 117,917,614 | 2,288      | 1978 | 102,197,942 | 962        |
| 1974 | 99,318,310  | 3,784      | 1979 | 107,708,762 |            |
| 1975 | 88,954,454  | 4,416      | 1980 | 83,914,264  |            |

## FREIGHT TRAFFIC, 1980

## UPBOUND

## (SHORT TONS)

| COMMODITY                          | TOTAL      | THROUGH TRAFFIC |           |           |       |
|------------------------------------|------------|-----------------|-----------|-----------|-------|
|                                    |            | OVERSEAS        | CANADIAN  | LAKEWISE  | OTHER |
| TOTAL                              | 17,271,430 | 930,904         | 8,621,419 | 7,718,907 | 200   |
| 0103 CORN                          | 21,675     |                 | 21,675    |           |       |
| 0109 RICE                          | 13         | 13              |           |           |       |
| 0121 TOBACCO, LEAF                 | 8,686      | 7,963           | 1,123     |           |       |
| 0129 FIELD CROPS, NEC              | 110        | 110             |           |           |       |
| 0141 FRESH AND FROZEN VEGETABLES   | 16         | 16              |           |           |       |
| 0161 ANIMALS AND PRODUCTS, NEC     | 140        | 140             |           |           |       |
| 0191 MISCELLANEOUS FARM PRODUCTS   | 23         | 23              |           |           |       |
| 0861 FOREST PRODUCTS, NEC          | 28         | 28              |           |           |       |
| 0911 FRESH FISH, EXCEPT SHELLFISH  | 1          |                 | 1         |           |       |
| 1011 IRON ORE AND CONCENTRATES     | 1,537,745  | 147,274         | 1,390,471 |           |       |
| 1051 ALUMINUM ORES, CONCENTRATES   | 8          | 8               |           |           |       |
| 1121 COAL AND LIGNITE              | 13,106,821 |                 | 4,086,688 | 7,020,133 |       |
| 1411 LIMESTONE                     | 123,324    |                 | 16,724    | 106,600   |       |
| 1442 SAND, GRAVEL, CRUSHED ROCK    | 520        | 330             | 190       |           |       |
| 1451 CLAY                          | 255        | 209             |           |           |       |
| 1499 NONMETALLIC MINERALS, NEC     | 809,266    | 88              | 667,776   | 141,402   |       |
| 1911 ORDONANCE AND ACCESSORIES     | 10         | 10              |           |           |       |
| 2012 MEAT AND PRODUCTS, NEC        | 3          | 3               |           |           |       |
| 2031 FISH AND SHELLFISH, PREPARED  | 43         | 43              |           |           |       |
| 2034 VEGETABLES AND PREP, NEC      | 1,211      | 1,189           | 22        |           |       |
| 2039 PREP FRUIT AND VEG JUICE, NEC | 57         | 29              | 28        |           |       |
| 2042 PREPARED ANIMAL FEEDS         | 440        | 440             |           |           |       |
| 2049 GRAIN MILL PRODUCTS, NEC      | 173        | 122             | 51        |           |       |
| 2081 ALCOHOLIC BEVERAGES           | 17,188     | 16,805          | 383       |           |       |
| 2091 VEGETABLE OILS, MARG, SHORT   | 68         | 68              |           |           |       |
| 2099 MISCELLANEOUS FOOD PRODUCTS   | 1,737      | 1,651           | 86        |           |       |
| 2211 BASIC TEXTILE PRODUCTS        | 30,033     | 29,990          | 43        |           |       |
| 2212 TEXTILE FIBERS, NEC           | 1,066      | 1,066           |           |           |       |
| 2311 APPAREL                       | 26         | 26              |           |           |       |
| 2413 FUEL WOOD, CHARCOAL, WASTES   | 266        | 248             | 18        |           |       |
| 2416 WOOD CHIPS, STAVES, HOLDINGS  | 1,660      |                 | 1,660     |           |       |
| 2421 LUMBER                        | 107        | 107             |           |           |       |
| 2431 VENEER, PLYWOOD, WORKED WOOD  | 44         | 44              |           |           |       |
| 2491 WOOD MANUFACTURES, NEC        | 392        | 392             |           |           |       |
| 2511 FURNITURE AND FIXTURES        | 182        | 171             | 11        |           |       |
| 2611 PULP                          | 4,503      | 4,503           |           |           |       |
| 2631 PAPER AND PAPERBOARD          | 74,321     | 33,792          | 40,529    |           |       |
| 2691 PULP AND PAPER PRODUCTS, NEC  | 13         | 12              | 1         |           |       |
| 2711 PRINTED MATTER                | 65         | 65              |           |           |       |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS  | 14,705     |                 |           | 14,705    |       |
| 2817 BENZENE AND TOLUENE           | 36,147     |                 |           | 36,147    |       |
| 2819 BASIC CHEMICALS AND PROD, NEC | 35,259     | 7,302           | 27,957    |           |       |
| 2821 PLASTIC MATERIALS             | 360        | 277             | 83        |           |       |
| 2831 DRUGS                         | 309        | 256             | 51        |           |       |
| 2841 SOAP                          | 199        | 199             |           |           |       |
| 2851 PAINTS                        | 1,230      | 1,208           | 22        |           |       |
| 2873 PHOSPHATIC CHEM FERTILIZERS   | 13,600     |                 | 13,600    |           |       |
| 2876 INSECTICIDES, DISINFECTANTS   | 85         | 85              |           |           |       |
| 2879 FERTILIZER AND MATERIALS, NEC | 85         |                 | 85        |           |       |
| 2891 MISCELLANEOUS CHEMICAL PROD   | 4,773      | 4,656           | 117       |           |       |
| 2911 GASOLINE                      | 44,413     |                 |           | 44,413    |       |
| 2912 JET FUEL                      | 121,448    |                 |           | 121,448   |       |
| 2914 DISTILLATE FUEL OIL           | 13,321     |                 |           | 13,321    |       |
| 2915 RESIDUAL FUEL OIL             | 150,768    |                 | 13,628    | 137,140   |       |
| 2916 LUBRICATING OILS AND GREASES  | 40,472     | 20              | 40,452    |           |       |
| 2918 ASPHALT, TAR, AND BITUMENS    | 61,645     |                 |           | 61,645    |       |
| 2920 COKE, PETROLEUM COKE          | 17,535     | 17,535          |           |           |       |
| 2991 PETROLEUM AND COAL PROD, NEC  | 33         | 33              |           |           |       |
| 3011 RUBBER AND MISC PLASTIC PROD  | 332        | 309             | 23        |           |       |
| 3111 LEATHER AND LEATHER PRODUCTS  | 487        | 465             | 22        |           |       |
| 3211 GLASS AND GLASS PRODUCTS      | 1,929      | 1,927           | 2         |           |       |
| 3241 BUILDING CEMENT               | 234,932    |                 | 234,932   |           |       |
| 3251 STRUCTURAL CLAY PRODUCTS      | 628        | 628             |           |           |       |
| 3261 CUT STONE AND STONE PRODUCTS  | 1,526      | 1,526           |           |           |       |
| 3291 MISC NONMETALLIC MINERAL PROD | 242        | 226             | 16        |           |       |
| 3312 SLAG                          | 21,953     |                 |           | 21,953    |       |
| 3314 IRON AND STEEL PRIMARY FORMS  | 9,859      | 9,839           | 16        |           |       |
| 3315 IRON, STEEL SHAPES, EXC SHEET | 488,750    | 487,810         | 940       |           |       |
| 3316 IRON AND STEEL PLATES, SHEETS | 2,465      | 2,465           |           |           |       |
| 3317 IRON AND STEEL PIPE AND TUBE  | 17,531     | 12,511          | 20        |           |       |
| 3318 FERROALLOYS                   | 132,157    | 78,148          | 56,009    |           |       |
| 3319 IRON AND STEEL PRODUCTS, NEC  | 6,740      | 6,740           |           |           |       |
| 3321 NONFERROUS METALS, NEC        | 1,290      | 1,290           |           |           |       |

## DETROIT, MICH., DISTRICT

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CHANNELS IN LAKE ST. CLAIR--CONTINUED

FREIGHT TRAFFIC, 1966--CONTINUED

UPBOUND--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL  | THROUGH TRAFFIC |          |          |       |
|---|--------|-----------------|----------|----------|-------|
|   |        | FOREIGN         | DOMESTIC |          |       |
|   |        | OVERSEAS        | CANADIAN | LAKEWISE | OTHER |
| 3322 COPPER ALLOYS, UNWORKED-----       | 971    | 569             | 2        | -----    | ----- |
| 3323 LEAD AND ZINC, UNWORKED-----       | 11,279 | 10,844          | 435      | -----    | ----- |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 4,826  | 998             | 3,828    | -----    | ----- |
| 3411 FABRICATED METAL PRODUCTS-----     | 9,817  | 9,854           | 163      | -----    | ----- |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 20,665 | 19,737          | 928      | -----    | 280   |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 1,344  | 1,302           | 42       | -----    | ----- |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 2,781  | 2,741           | 40       | -----    | ----- |
| 3721 AIRCRAFT AND PARTS-----            | 2      | 2               | -----    | -----    | ----- |
| 3731 SHIPS AND BOATS-----               | 2      | 2               | -----    | -----    | ----- |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 7,560  | 7,812           | 348      | -----    | ----- |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 26     | 26              | -----    | -----    | ----- |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 890    | 885             | 5        | -----    | ----- |
| 4112 COMMODITIES, NEC-----              | 1,134  | 941             | 193      | -----    | ----- |

DOWNBOUND

(SHORT TONS)

| COMMODITY                               | TOTAL      | THROUGH TRAFFIC |            |            |        |
|---|------------|-----------------|------------|------------|--------|
|   |            | FOREIGN         | DOMESTIC   |            |        |
|   |            | OVERSEAS        | CANADIAN   | LAKEWISE   | OTHER  |
| TOTAL-----                              | 66,642,834 | 5,976,653       | 10,444,252 | 58,266,074 | 15,855 |
| 0102 BARLEY AND RYE-----                | 1,086,232  | 488,323         | 478,982    | 118,927    | -----  |
| 0103 CORN-----                          | 3,202,397  | 841,429         | 2,360,968  | -----      | -----  |
| 0104 OATS-----                          | 68,125     | 55,882          | 9,539      | 3,004      | -----  |
| 0107 WHEAT-----                         | 5,104,727  | 1,866,831       | 1,836,290  | 1,402,106  | -----  |
| 0111 SOYBEANS-----                      | 247,275    | 191,606         | 95,669     | -----      | -----  |
| 0119 OILSEEDS, NEC-----                 | 1,367,434  | 1,367,434       | -----      | -----      | -----  |
| 0129 FIELD CROPS, NEC-----              | 5          | 5               | -----      | -----      | -----  |
| 0131 FRESH FRUITS AND TREE NUTS-----    | 107        | -----           | 107        | -----      | -----  |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 4,544      | 4,062           | 482        | -----      | -----  |
| 0161 ANIMALS AND PRODUCTS, NEC-----     | 3,126      | 3,095           | 31         | -----      | -----  |
| 0191 MISCELLANEOUS FARM PRODUCTS-----   | 2          | 2               | -----      | -----      | -----  |
| 0861 FOREST PRODUCTS, NEC-----          | 2          | 2               | -----      | -----      | -----  |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 199        | 199             | -----      | -----      | -----  |
| 0912 SHELLFISH, EXCEPT PREPARED-----    | 4          | 4               | -----      | -----      | -----  |
| 1011 IRON ORE AND CONCENTRATES-----     | 41,351,202 | -----           | 3,262,695  | 38,088,507 | -----  |
| 1031 ALUMINUM ORES, CONCENTRATES-----   | 53,089     | 1               | -----      | 53,088     | -----  |
| 1121 COAL AND LIGNITE-----              | 8,944,285  | -----           | 512,508    | 8,431,777  | -----  |
| 1411 LIMESTONE-----                     | 38         | 38              | -----      | -----      | -----  |
| 1412 BUILDING STONE, UNWORKED-----      | 372,510    | 286             | 14,971     | 357,253    | -----  |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 308,480    | 138,746         | 169,734    | -----      | -----  |
| 1451 CLAY-----                          | 2          | 2               | -----      | -----      | -----  |
| 1492 SULPHUR, DRY-----                  | 529,528    | -----           | -----      | 529,528    | -----  |
| 1494 GYPSUM, CRUDE AND PLASTERS-----    | 1,233      | 66              | 1,167      | -----      | -----  |
| 1499 NONMETALLIC MINERALS, NEC-----     | 19         | 19              | -----      | -----      | -----  |
| 2011 MEAT, FRESH, CHILLED, FROZEN-----  | 38,998     | 38,993          | 5          | -----      | -----  |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 77,211     | 77,018          | 193        | -----      | -----  |
| 2015 ANIMAL BY-PRODUCTS, NEC-----       | 1,683      | 1,486           | 197        | -----      | -----  |
| 2021 DAIRY PRODUCTS, NEC-----           | 350        | 350             | -----      | -----      | -----  |
| 2022 DRIED MILK AND CREAM-----          | 14,081     | 14,081          | -----      | -----      | -----  |
| 2034 VEGETABLES AND PREP, NEC-----      | 389        | 381             | 88         | -----      | -----  |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 438        | 438             | -----      | -----      | -----  |
| 2041 WHEAT FLOUR AND SEMOLINA-----      | 31,232     | 30,949          | 283        | -----      | -----  |
| 2042 PREPARED ANIMAL FEEDS-----         | 84,671     | 84,667          | 4          | -----      | -----  |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 129,982    | 128,924         | 978        | -----      | -----  |
| 2081 ALCOHOLIC BEVERAGES-----           | 123        | 106             | 17         | -----      | -----  |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 5,529      | 5,402           | 127        | -----      | -----  |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 13,750     | 12,455          | 1,295      | -----      | -----  |
| 2211 BASIC TEXTILE PRODUCTS-----        | 464        | 391             | 73         | -----      | -----  |
| 2311 APPAREL-----                       | 1,391      | 1,384           | 7          | -----      | -----  |
| 2411 LOGS-----                          | 25,955     | 25,955          | -----      | -----      | -----  |
| 2421 LUMBER-----                        | 1,859      | 1,848           | 11         | -----      | -----  |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 7,032      | 6               | 7,026      | -----      | -----  |
| 2491 WOOD MANUFACTURES, NEC-----        | 1,033      | 1,008           | 25         | -----      | -----  |
| 2511 FURNITURE AND FIXTURES-----        | 124        | 113             | 11         | -----      | -----  |
| 2611 PULP-----                          | 897        | 897             | -----      | -----      | -----  |
| 2631 PAPER AND PAPERBOARD-----          | 55,393     | 6,447           | 48,944     | -----      | -----  |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 262        | 195             | 67         | -----      | -----  |
| 2711 PRINTED MATTER-----                | 1,264      | 1,111           | 153        | -----      | -----  |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 53,458     | 9,398           | 44,060     | -----      | -----  |
| 2821 PLASTIC MATERIALS-----             | 2,397      | 2,319           | 78         | -----      | -----  |
| 2822 SYNTHETIC RUBBER-----              | 250        | -----           | 250        | -----      | -----  |
| 2831 DRUGS-----                         | 173        | 168             | 5          | -----      | -----  |
| 2841 SOAP-----                          | 2,394      | 2,230           | 164        | -----      | -----  |
| 2891 PAINTS-----                        | 174        | 91              | 83         | -----      | -----  |
| 2891 GUM AND WOOD CHEMICALS-----        | 36         | 20              | 16         | -----      | -----  |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 4,200      | -----           | 4,200      | -----      | -----  |
| 2873 PHOSPHOROUS CHEM FERTILIZERS-----  | 334,238    | -----           | 334,238    | -----      | -----  |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 50         | 2               | 48         | -----      | -----  |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 2,899      | 2,354           | 545        | -----      | -----  |
| 2911 GASOLINE-----                      | 25         | 25              | -----      | -----      | -----  |
| 2914 DISTILLATE FUEL OIL-----           | 14,253     | -----           | 14,253     | -----      | -----  |
| 2919 RESIDUAL FUEL OIL-----             | 366,311    | -----           | 196,050    | 154,486    | 15,855 |
| 2916 LUBRICATING OILS AND GREASES-----  | 16,240     | 173             | 16,067     | -----      | -----  |
| 2918 ASPHALT, TAR, AND PITCHES-----     | 94,135     | 103             | -----      | 94,032     | -----  |
| 2920 COKE, PETROLEUM COKE-----          | 1,278,940  | 218,169         | 976,321    | 92,454     | -----  |
| 2921 LIQUEFIED GASES-----               | 60         | 60              | -----      | -----      | -----  |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

CHANNELS IN LAKE ST. CLAIR--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

DOWNBOUND--CONTINUED

(SHORT TONS)

| COMMODITY                          | TOTAL   | THROUGH TRAFFIC |          |          |                |
|------------------------------------|---------|-----------------|----------|----------|----------------|
|                                    |         | FOREIGN         | CANADIAN | LAKEWISE | DOMESTIC OTHER |
| 2991 PETROLEUM AND COAL PROD, NEC  | 10      | 10              |          |          |                |
| 3011 RUBBER AND MISC PLASTIC PROD  | 452     | 249             | 207      |          |                |
| 3111 LEATHER AND LEATHER PRODUCTS  | 328     | 218             | 110      |          |                |
| 3211 GLASS AND GLASS PRODUCTS      | 200     | 196             | 4        |          |                |
| 3241 BUILDING CEMENT               | 867,432 | 6               | 5,500    | 861,926  |                |
| 3281 CUT STONE AND STONE PRODUCTS  | 132     | 132             |          |          |                |
| 3291 MISC NONMETALLIC MINERAL PROD | 86      | 77              | 9        |          |                |
| 3312 SLAG                          | 18,500  |                 |          | 18,500   |                |
| 3314 IRON AND STEEL PRIMARY FORMS  | 4,480   | 4,480           |          |          |                |
| 3319 IRON, STEEL SHAPES, EXC SHEET | 1,647   | 1,578           | 77       |          |                |
| 3316 IRON AND STEEL PLATES, SHEETS | 156,366 | 144,075         | 12,291   |          |                |
| 3317 IRON AND STEEL PIPE AND TUBE  | 191     | 178             | 13       |          |                |
| 3319 IRON AND STEEL PRODUCTS, NEC  | 2,979   | 213             | 2,766    |          |                |
| 3321 NONFERROUS METALS, NEC        | 170     | 140             | 30       |          |                |
| 3322 COPPER ALLOYS, UNWORKED       | 941     | 892             | 49       |          |                |
| 3323 LEAD AND ZINC, UNWORKED       | 1,653   | 1,653           |          |          |                |
| 3324 ALUMINUM AND ALLOYS, UNWORKED | 118     | 108             | 10       |          |                |
| 3411 FABRICATED METAL PRODUCTS     | 2,937   | 1,744           | 621      | 572      |                |
| 3911 MACHINERY, EXCEPT ELECTRICAL  | 24,012  | 22,719          | 1,293    |          |                |
| 3611 ELECTRICAL MACH AND EQUIP     | 5,630   | 5,308           | 322      |          |                |
| 3711 MOTOR VEHICLES, PARTS, EQUIP  | 5,404   | 4,803           | 603      |          |                |
| 3721 AIRCRAFT AND PARTS            | 8       | 8               |          |          |                |
| 3731 SHIPS AND BOATS               | 68      | 68              |          |          |                |
| 3791 MISC TRANSPORTATION EQUIPMENT | 469     | 154             | 315      |          |                |
| 3811 INSTR, TIME, PHOTO, OPT GOODS | 269     | 220             | 49       |          |                |
| 3911 MISC MANUFACTURED PRODUCTS    | 536     | 368             | 168      |          |                |
| 4011 IRON AND STEEL SCRAP          | 236,976 | 207,090         | 29,086   |          |                |
| 4012 NONFERROUS METAL SCRAP        | 1,747   | 1,604           | 143      |          |                |
| 4024 PAPER WASTE AND SCRAP         | 44      | 44              |          |          |                |
| 4112 COMMODITIES, NEC              | 98      | 92              | 6        |          |                |
| 9999 DEPARTMENT OF DEFENSE AND SCI | 130     | 114             | 16       |          |                |

TONS, ALL TRAFFIC, 83,914,264.  
TON-MILES, ALL TRAFFIC, 1,310,456,792.

## DETROIT RIVER, MICH.

SECTION INCLUDED: ENTIRE LENGTH OF DETROIT RIVER AND ROUGE RIVER TO HEAD OF PROJECT, CONTROLLING DEPTHS: 25 TO 28.5 FEET AND 21 TO 25 FEET, RESPECTIVELY WITH 6 TO 7 FEET OF SHOALING ALONG THE CHANNEL LIMITS OF THE LOWER LIVINGSTONE AND EAST OUTER CHANNEL, AND WITH 2 TO 3 FEET OF SHOALING ALONG THE CENTER LINE THROUGHOUT THE CHANNELS, WITH PROJECT DEPTH IN THE REGULARLY TRAVELED SHIPPING LANES.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TRAFFIC OF PORTS |            | THROUGH TRAFFIC |            | TOTAL       |            |
|------|------------------|------------|-----------------|------------|-------------|------------|
|      | TONS             | PASSENGERS | TONS            | PASSENGERS | TONS        | PASSENGERS |
| 1971 | 30,051,909       | 172        | 85,690,069      | 4          | 115,741,978 | 176        |
| 1972 | 29,913,128       | 229        | 89,777,917      | 10         | 119,691,045 | 239        |
| 1973 | 31,541,566       | 1,117,670  | 100,134,816     | 2          | 131,676,382 | 1,119,672  |
| 1974 | 27,562,952       | 1,141,012  | 82,952,901      | 182        | 110,515,853 | 1,141,194  |
| 1975 | 26,491,966       | 968,844    | 73,927,310      |            | 100,419,276 | 968,844    |
| 1976 | 26,407,938       | 837,725    | 78,143,875      | 2,608      | 104,551,813 | 840,333    |
| 1977 | 29,106,301       | 897,072    | 85,470,482      | 22         | 114,576,783 | 897,094    |
| 1978 | 25,681,508       | 867,826    | 87,130,324      |            | 112,811,832 | 867,826    |
| 1979 | 24,995,087       | 831,460    | 93,396,042      |            | 118,391,129 | 831,960    |
| 1980 | 19,278,914       | 494,706    | 72,793,919      |            | 92,072,833  | 494,708    |

## FREIGHT TRAFFIC, 1980

UPBOUND

(SHORT TONS)

| COMMODITY                         | TOTAL      | THROUGH TRAFFIC |           |           |       | RECEIPTS AND SHIPMENTS |          |           |         |
|-----------------------------------|------------|-----------------|-----------|-----------|-------|------------------------|----------|-----------|---------|
|                                   |            | FOREIGN         | CANADIAN  | LAKEWISE  | OTHER | FOREIGN                | CANADIAN | LAKEWISE  | OTHER   |
| TOTAL                             | 24,606,831 | 930,904         | 8,646,001 | 7,921,008 | 200   | 410,723                | 805,231  | 6,019,723 | 272,443 |
| 0103 CORN                         | 21,675     |                 | 21,675    |           |       |                        |          |           |         |
| 0105 RICE                         | 13         |                 | 13        |           |       |                        |          |           |         |
| 0111 SOYBEANS                     | 13,084     |                 | 13,084    |           |       |                        |          |           |         |
| 0121 TOBACCO, LEAF                | 20,587     | 7,563           | 1,123     |           |       | 378                    | 11,523   |           |         |
| 0129 FIELD CROPS, NEC             | 111        | 110             |           |           |       |                        |          |           |         |
| 0141 FRESH AND FROZEN VEGETABLES  | 19         | 18              |           |           |       |                        |          |           |         |
| 0161 ANIMALS AND PRODUCTS, NEC    | 221        | 140             |           |           |       |                        |          |           |         |
| 0191 MISCELLANEOUS FARM PRODUCTS  | 51         | 23              |           |           |       |                        |          |           |         |
| 0841 CRUDE RUBBER AND ALLIED GUMS | 35         |                 |           |           |       |                        |          |           |         |
| 0861 FOREST PRODUCTS, NEC         | 49         | 28              |           |           |       |                        |          |           |         |
| 0911 FRESH FISH, EXCEPT SHELLFISH | 4          |                 |           |           |       |                        |          |           |         |
| 1011 IRON ORE AND CONCENTRATES    | 1,886,604  | 147,274         | 1,390,471 |           |       |                        | 346,659  |           |         |
| 1051 ALUMINUM ORES, CONCENTRATES  | 19         | 9               |           |           |       |                        | 11       |           |         |
| 1061 MANGANESE ORES, CONCENTRATES | 21,826     |                 |           |           |       | 21,826                 |          |           |         |
| 1121 COAL AND LIGNITE             | 18,703,887 |                 | 6,186,608 | 7,020,133 |       |                        |          | 5,597,066 |         |
| 1411 LIMESTONE                    | 207,227    |                 | 31,340    | 106,670   |       |                        | 6,432    | 62,846    |         |
| 1442 SAND, GRAVEL, CRUSHED ROCK   | 564        | 330             | 190       |           |       |                        | 44       |           |         |
| 1451 CLAY                         | 522        | 205             |           |           |       | 7                      | 310      |           |         |

## DETROIT, MICH., DISTRICT

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DETROIT RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1968--CONTINUED

UPBOUND--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL   | THROUGH TRAFFIC |          |          |       |  | RECEIPTS AND SHIPMENTS |          |          |         |  |
|---|---------|-----------------|----------|----------|-------|--|------------------------|----------|----------|---------|--|
|   |         | FOREIGN         |          | DOMESTIC |       |  | FOREIGN                |          | DOMESTIC |         |  |
|   |         | OVERSEAS        | CANADIAN | LAKENISE | OTHER |  | OVERSEAS               | CANADIAN | LAKENISE | OTHER   |  |
| 1499 NONMETALLIC MINERALS, NEC-----     | 988,323 | 88              | 467,774  | 130,914  |       |  | 179,057                |          | 10,488   |         |  |
| 1911 ORDNANCE AND ACCESSORIES-----      | 12      | 10              |          |          |       |  | 2                      |          |          |         |  |
| 2011 MEAT, FRESH, CHILLED, FROZEN-----  | 179     |                 |          |          |       |  | 179                    |          |          |         |  |
| 2012 MEAT AND PRODUCTS, NEC-----        | 7       | 3               |          |          |       |  | 1                      |          |          |         |  |
| 2021 DAIRY PRODUCTS, NEC-----           | 10      |                 |          |          |       |  | 10                     |          |          |         |  |
| 2031 FISH AND SMELT/FISH, PREPARED----- | 124     | 43              |          |          |       |  | 1                      |          | 80       |         |  |
| 2034 VEGETABLES AND PREP, NEC-----      | 1,284   | 1,189           | 22       |          |       |  | 40                     |          | 33       |         |  |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 144     | 29              | 28       |          |       |  | 2                      |          | 105      |         |  |
| 2042 PREPARED ANIMAL FEEDS-----         | 480     | 440             |          |          |       |  |                        |          | 40       |         |  |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 282     | 122             | 51       |          |       |  |                        |          | 109      |         |  |
| 2081 ALCOHOLIC BEVERAGES-----           | 27,090  | 16,805          | 303      |          |       |  | 6,432                  | 3,470    |          |         |  |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 75      | 68              |          |          |       |  |                        | 7        |          |         |  |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 1,999   | 1,651           | 86       |          |       |  | 15                     | 247      |          |         |  |
| 2211 BASIC TEXTILE PRODUCTS-----        | 30,627  | 29,990          | 43       |          |       |  | 233                    | 361      |          |         |  |
| 2212 TEXTILE FIBERS, NEC-----           | 1,613   | 1,066           |          |          |       |  | 53                     | 492      |          |         |  |
| 2311 APPAREL-----                       | 60      | 26              |          |          |       |  |                        | 34       |          |         |  |
| 2413 FUEL WOOD, CHARCOAL, WASTES-----   | 335     | 248             | 18       |          |       |  | 69                     |          |          |         |  |
| 2418 WOOD CHIPS, STAVES, HOLDINGS-----  | 1,661   | 1,660           |          |          |       |  |                        | 1        |          |         |  |
| 2421 LUMBER-----                        | 108     | 107             |          |          |       |  |                        | 1        |          |         |  |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 104     | 44              |          |          |       |  | 35                     | 25       |          |         |  |
| 2491 WOOD MANUFACTURES, NEC-----        | 433     | 392             | 8        |          |       |  | 4                      | 29       |          |         |  |
| 2511 FURNITURE AND FIXTURES-----        | 620     | 171             | 11       |          |       |  | 203                    | 435      |          |         |  |
| 2611 PULP-----                          | 4,503   | 4,503           |          |          |       |  |                        |          |          |         |  |
| 2631 PAPER AND PAPERBOARD-----          | 75,605  | 33,792          | 40,529   |          |       |  | 682                    | 602      |          |         |  |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 51      | 12              | 1        |          |       |  |                        | 36       |          |         |  |
| 2711 PRINTED MATTER-----                | 353     | 65              |          |          |       |  | 43                     | 245      |          |         |  |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 21,082  |                 |          | 14,705   |       |  | 18                     | 106      | 2,784    | 3,469   |  |
| 2817 BENZENE AND TOLUENE-----           | 36,147  |                 |          | 36,147   |       |  |                        |          |          |         |  |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 39,741  | 7,302           | 27,622   |          |       |  | 230                    | 4,387    |          |         |  |
| 2821 PLASTIC MATERIALS-----             | 875     | 277             | 83       |          |       |  | 26                     | 489      |          |         |  |
| 2831 DRUGS-----                         | 357     | 258             | 51       |          |       |  | 6                      | 42       |          |         |  |
| 2841 SOAP-----                          | 314     | 199             |          |          |       |  | 1                      | 114      |          |         |  |
| 2891 PAINTS-----                        | 6,315   | 1,208           | 22       |          |       |  | 325                    | 4,760    |          |         |  |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 13,601  |                 | 13,600   |          |       |  |                        | 1        |          |         |  |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 126     | 85              |          |          |       |  |                        | 41       |          |         |  |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 7,545   | 65              |          |          |       |  |                        | 122      |          |         |  |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 7,545   | 4,656           | 117      |          |       |  | 457                    | 2,315    |          |         |  |
| 2911 GASOLINE-----                      | 40,138  |                 |          | 12,991   |       |  |                        |          | 31,422   | 3,725   |  |
| 2912 JET FUEL-----                      | 121,448 |                 |          | 121,448  |       |  |                        |          |          |         |  |
| 2914 DISTILLATE FUEL OIL-----           | 30,497  |                 |          | 1,737    |       |  |                        |          | 13,632   | 15,928  |  |
| 2915 RESIDUAL FUEL OIL-----             | 609,030 |                 | 13,626   | 67,370   |       |  |                        | 119,975  | 205,900  | 282,157 |  |
| 2916 LUBRICATING OILS AND GREASES-----  | 87,445  | 20              | 38,052   |          |       |  |                        | 2,429    | 67,869   | 47,164  |  |
| 2918 ASPHALT, TAR, AND BITUMES-----     | 67,869  |                 |          |          |       |  |                        |          |          |         |  |
| 2920 COKE, PETROLEUM COKE-----          | 17,535  | 17,535          |          |          |       |  |                        |          |          |         |  |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 33      | 33              |          |          |       |  |                        |          |          |         |  |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 859     | 309             | 23       |          |       |  | 63                     | 444      |          |         |  |
| 3111 LEATHER AND LEATHER PRODUCTS-----  | 1,149   | 465             | 22       |          |       |  | 31                     | 631      |          |         |  |
| 3211 GLASS AND GLASS PRODUCTS-----      | 3,627   | 1,927           | 2        |          |       |  | 973                    | 725      |          |         |  |
| 3241 BUILDING CEMENT-----               | 248,591 |                 | 234,932  |          |       |  |                        | 13,659   |          |         |  |
| 3251 STRUCTURAL CLAY PRODUCTS-----      | 2,597   | 628             |          |          |       |  | 694                    | 1,275    |          |         |  |
| 3281 CUT STONE AND STONE PRODUCTS-----  | 3,008   | 1,526           |          |          |       |  | 688                    | 794      |          |         |  |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 911     | 224             | 16       |          |       |  | 70                     | 599      |          |         |  |
| 3311 PIG IRON-----                      | 14,474  |                 |          | 8,961    |       |  |                        |          | 14,474   |         |  |
| 3312 SLAG-----                          | 21,953  |                 |          |          |       |  |                        |          | 12,992   |         |  |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 18,478  | 9,839           | 16       |          |       |  | 5,699                  | 2,924    |          |         |  |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 832,490 | 487,810         | 940      |          |       |  | 319,859                | 23,881   |          |         |  |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 6,188   | 2,465           |          |          |       |  | 2,211                  | 1,512    |          |         |  |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 18,334  | 12,511          | 20       |          |       |  | 1,812                  | 1,141    | 850      |         |  |
| 3318 FERROALLOYS-----                   | 181,644 | 76,148          | 56,089   |          |       |  | 27,633                 | 1,654    |          |         |  |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 14,446  | 6,740           |          |          |       |  | 684                    | 7,016    |          |         |  |
| 3321 NONFERROUS METALS, NEC-----        | 2,992   | 1,250           |          |          |       |  | 1,830                  | 512      |          |         |  |
| 3322 COPPER ALLOYS, UNWORKED-----       | 1,555   | 549             | 2        |          |       |  | 33                     | 955      |          |         |  |
| 3323 LEAD AND ZINC, UNWORKED-----       | 11,929  | 10,844          | 435      |          |       |  | 54                     | 600      |          |         |  |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 5,692   | 990             | 3,828    |          |       |  | 296                    | 770      |          |         |  |
| 3411 FABRICATED METAL PRODUCTS-----     | 11,279  | 5,654           | 163      |          |       |  | 2,499                  | 2,963    |          |         |  |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 49,256  | 19,737          | 928      |          |       |  | 5,465                  | 22,724   |          |         |  |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 5,530   | 1,302           | 42       |          | 200   |  | 448                    | 3,747    |          |         |  |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 24,635  | 2,741           | 40       |          |       |  | 2,624                  | 19,230   |          |         |  |
| 3721 AIRCRAFT AND PARTS-----            | 2       | 2               |          |          |       |  |                        |          |          |         |  |
| 3731 SHIPS AND BOATS-----               | 40      | 2               |          |          |       |  |                        | 38       |          |         |  |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 7,621   | 7,212           | 348      |          |       |  |                        | 61       |          |         |  |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 898     | 26              |          |          |       |  | 39                     | 833      |          |         |  |
| 3811 MISC MANUFACTURED PRODUCTS-----    | 1,472   | 885             | 5        |          |       |  | 70                     | 512      |          |         |  |
| 4011 IRON AND STEEL SCRAP-----          | 11,295  |                 |          |          |       |  | 5,898                  | 5,387    |          |         |  |
| 4012 NONFERROUS METAL SCRAP-----        | 343     |                 |          |          |       |  | 24                     | 319      |          |         |  |
| 4112 COMMODITIES, NEC-----              | 3,845   | 941             | 193      |          |       |  | 141                    | 2,570    |          |         |  |

## DOWNBOUND

(SHORT TONS)

| COMMODITY                | TOTAL      | THROUGH TRAFFIC |            |            |        |  | RECEIPTS AND SHIPMENTS |          |            |        |  |
|--------------------------|------------|-----------------|------------|------------|--------|--|------------------------|----------|------------|--------|--|
|                          |            | FOREIGN         |            | DOMESTIC   |        |  | FOREIGN                |          | DOMESTIC   |        |  |
|                          |            | OVERSEAS        | CANADIAN   | LAKENISE   | OTHER  |  | OVERSEAS               | CANADIAN | LAKENISE   | OTHER  |  |
| TOTAL-----               | 67,466,002 | 5,976,693       | 10,431,797 | 39,270,943 | 15,655 |  | 534,739                | 162,955  | 11,050,355 | 22,749 |  |
| 0102 BARLEY AND RYE----- | 1,086,232  | 488,323         | 478,982    | 118,927    |        |  |                        |          |            |        |  |
| 0103 CORN-----           | 3,203,930  | 841,429         | 2,760,968  |            |        |  | 79                     | 1,054    |            |        |  |
| 0104 OATS-----           | 68,185     | 55,582          | 9,539      | 3,064      |        |  |                        | 68       |            |        |  |
| 0107 WHEAT-----          | 5,104,777  | 1,866,331       | 1,436,290  | 1,402,156  |        |  |                        |          |            |        |  |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

DETROIT RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

DOWNBOUND--CONTINUED

(SHORT TONS)

| COMMODITY                                 | TOTAL      | THROUGH TRAFFIC |           |            |        | RECEIPTS AND SHIPMENTS |          |           |        |
|---|------------|-----------------|-----------|------------|--------|------------------------|----------|-----------|--------|
|   |            | FOREIGN         |           | DOMESTIC   |        | FOREIGN                |          | DOMESTIC  |        |
|   |            | OVERSEAS        | CANADIAN  | LAKEWISE   | OTHER  | OVERSEAS               | CANADIAN | LAKEWISE  | OTHER  |
| 0111 SOYBEANS-----                        | 247,279    | 191,606         | 95,669    |            |        |                        |          |           |        |
| 0119 OILSEEDS, NEC-----                   | 1,367,496  | 1,367,434       |           |            |        | 22                     |          |           |        |
| 0121 TOBACCO, LEAF-----                   | 428        |                 | 428       |            |        |                        |          |           |        |
| 0129 FIELD CROPS, NEC-----                | 31         | 5               |           |            |        | 26                     |          |           |        |
| 0131 FRESH FRUITS AND TREE NUTS-----      | 321        |                 | 107       |            |        |                        | 214      |           |        |
| 0141 FRESH AND FROZEN VEGETABLES-----     | 53,731     | 4,062           | 482       |            |        | 11,008                 | 38,179   |           |        |
| 0161 ANIMALS AND PRODUCTS, NEC-----       | 3,376      | 3,095           | 31        |            |        | 7                      | 243      |           |        |
| 0191 MISCELLANEOUS FARM PRODUCTS-----     | 2          | 2               |           |            |        |                        |          |           |        |
| 0861 FOREST PRODUCTS, NEC-----            | 6          | 2               |           |            |        |                        | 4        |           |        |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----    | 199        | 199             |           |            |        |                        |          |           |        |
| 0912 SHELLFISH, EXCEPT PREPARED-----      | 4          | 4               |           |            |        |                        |          |           |        |
| 1011 IRON ORE AND CONCENTRATES-----       | 41,351,202 |                 | 3,262,695 | 30,849,105 |        |                        |          | 7,243,402 |        |
| 1091 ALUMINUM ORES, CONCENTRATES-----     | 1          | 1               |           |            |        |                        |          |           |        |
| 1091 NONFERROUS ORES, CONCENTRATES-----   | 20         |                 |           |            |        | 20                     |          |           |        |
| 1411 COAL AND LIGNITE-----                | 53,082     |                 | 53,082    |            |        |                        |          |           |        |
| 1411 LIMESTONE-----                       | 8,945,097  |                 | 512,508   | 9,497,224  |        | 18                     | 794      | 2,934,553 |        |
| 1412 BUILDING STONE, UNWORKED-----        | 38         | 38              |           |            |        |                        |          |           |        |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----      | 372,658    | 286             | 14,971    | 357,293    |        |                        | 148      |           |        |
| 1491 CLAY-----                            | 309,015    | 138,746         | 169,734   |            |        | 14                     | 521      |           |        |
| 1492 SULPHUR, DRY-----                    | 2          | 2               |           |            |        |                        |          |           |        |
| 1494 GYPSUM, CRUDE AND PLASTERS-----      | 529,528    |                 |           | 286,735    |        |                        |          | 242,793   |        |
| 1499 NONMETALLIC MINERALS, NEC-----       | 16,265     | 66              | 14,916    |            |        |                        | 1,283    |           |        |
| 1911 ORDNANCE AND ACCESSORIES-----        | 19         | 19              |           |            |        |                        |          |           |        |
| 2011 MEAT, FRESH, CHILLED, FROZEN-----    | 39,018     | 38,993          | 5         |            |        | 20                     |          |           |        |
| 2014 TALLOW, ANIMAL FATS AND OILS-----    | 101,730    | 77,018          | 193       |            |        | 24,519                 |          |           |        |
| 2015 ANIMAL BY-PRODUCTS, NEC-----         | 6,976      | 1,486           | 197       |            |        | 9                      | 4,719    |           |        |
| 2021 DAIRY PRODUCTS, NEC-----             | 350        | 350             |           |            |        |                        |          |           |        |
| 2022 DRIED MILK AND CREAM-----            | 14,096     | 14,081          |           |            |        | 9                      | 6        |           |        |
| 2034 VEGETABLES AND PREP. NEC-----        | 648        | 301             | 88        |            |        |                        | 299      |           |        |
| 2039 PREP. FRUIT AND VEG. JUICE, NEC----- | 2,367      | 438             |           |            |        | 138                    | 1,793    |           |        |
| 2041 WHEAT FLOUR AND SEMOLINA-----        | 31,232     | 30,949          | 283       |            |        |                        |          |           |        |
| 2042 PREPARED ANIMAL FEEDS-----           | 85,458     | 84,067          | 604       |            |        | 193                    | 594      |           |        |
| 2049 GRAIN MILL PRODUCTS, NEC-----        | 132,657    | 128,924         | 978       |            |        | 1,959                  | 796      |           |        |
| 2081 ALCOHOLIC BEVERAGES-----             | 150        | 106             | 16        |            |        |                        | 28       |           |        |
| 2091 VEGETABLE OILS, MARG. SHORT-----     | 5,532      | 5,402           | 127       |            |        | 3                      |          |           |        |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----     | 13,806     | 12,455          | 1,295     |            |        | 40                     | 16       |           |        |
| 2111 TOBACCO MANUFACTURES-----            | 18         |                 |           |            |        |                        | 18       |           |        |
| 2211 BASIC TEXTILE PRODUCTS-----          | 555        | 391             | 73        |            |        |                        | 91       |           |        |
| 2311 APPAREL-----                         | 1,954      | 1,384           | 7         |            |        | 222                    | 341      |           |        |
| 2411 LOGS-----                            | 25,955     | 25,955          |           |            |        |                        |          |           |        |
| 2421 LUMBER-----                          | 2,185      | 1,848           | 11        |            |        |                        | 324      |           |        |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----    | 7,082      | 6               | 7,026     |            |        |                        | 50       |           |        |
| 2491 WOOD MANUFACTURES, NEC-----          | 1,195      | 1,008           | 25        |            |        | 25                     | 137      |           |        |
| 2511 FURNITURE AND FIXTURES-----          | 903        | 113             | 11        |            |        | 57                     | 722      |           |        |
| 2611 PULP-----                            | 897        | 897             |           |            |        |                        |          |           |        |
| 2631 PAPER AND PAPERBOARD-----            | 55,968     | 6,449           | 48,944    |            |        | 291                    | 324      |           |        |
| 2691 PULP AND PAPER PRODUCTS, NEC-----    | 692        | 195             | 67        |            |        | 69                     | 561      |           |        |
| 2711 PRINTED MATTER-----                  | 1,844      | 1,111           | 193       |            |        | 13                     | 567      |           |        |
| 2812 DYES, PIGMENT, TANNING MATS-----     | 5          |                 |           |            |        |                        | 5        |           |        |
| 2819 BASIC CHEMICALS AND PROD. NEC-----   | 62,891     | 9,398           | 44,076    |            |        | 2,319                  | 7,058    |           |        |
| 2821 PLASTIC MATERIALS-----               | 5,473      | 2,319           | 78        |            |        | 207                    | 2,869    |           |        |
| 2822 SYNTHETIC RUBBER-----                | 251        |                 | 250       |            |        |                        | 1        |           |        |
| 2841 DRUGS-----                           | 570        | 166             |           |            |        | 133                    | 26       |           |        |
| 2841 SOAP-----                            | 14,152     | 2,230           | 164       |            |        | 380                    | 11,378   |           |        |
| 2851 PAINTS-----                          | 260        | 91              | 83        |            |        | 10                     | 56       |           |        |
| 2861 GUM AND WOOD CHEMICALS-----          | 36         | 20              | 16        |            |        |                        |          |           |        |
| 2871 NITROGENOUS CHEM. FERTILIZERS-----   | 4,200      |                 | 4,200     |            |        |                        |          |           |        |
| 2873 PHOSPHATIC CHEM. FERTILIZERS-----    | 334,238    |                 | 334,238   |            |        |                        |          |           |        |
| 2876 INSECTICIDES, DISINFECTANTS-----     | 416        | 2               | 48        |            |        | 11                     | 355      |           |        |
| 2891 MISCELLANEOUS CHEMICAL PROD-----     | 5,308      | 2,354           | 541       |            |        | 193                    | 2,220    |           |        |
| 2911 GASOLINE-----                        | 52         | 25              |           |            |        |                        | 7        |           |        |
| 2913 KEROSENE-----                        | 34         |                 |           |            |        | 34                     |          |           |        |
| 2914 DISTILLATE FUEL OIL-----             | 30,969     |                 | 14,293    |            |        |                        |          |           |        |
| 2915 RESIDUAL FUEL OIL-----               | 432,820    |                 | 171,907   | 125,145    | 15,855 |                        | 24,143   | 11,648    | 5,068  |
| 2916 LUBRICATING OILS AND GREASES-----    | 17,214     | 173             | 16,067    |            |        | 37                     | 937      | 78,089    | 17,681 |
| 2918 ASPHALT, TAR, AND PITCHES-----       | 153,446    | 103             |           |            |        |                        | 4,563    | 148,780   |        |
| 2920 COKE, PETROLEUM COKE-----            | 1,291,236  | 210,145         | 976,321   | 92,454     |        |                        | 12,294   |           |        |
| 2921 LIQUEFIED GASES-----                 | 60         | 60              |           |            |        |                        |          |           |        |
| 2991 ASPHALT BUILDING MATERIALS-----      | 9          |                 |           |            |        |                        | 9        |           |        |
| 2991 PETROLEUM AND COAL PROD. NEC-----    | 10         | 10              |           |            |        |                        |          |           |        |
| 3011 RUBBER AND MISC. PLASTIC PROD-----   | 2,364      | 249             | 207       |            |        | 120                    | 1,792    |           |        |
| 3111 LEATHER AND LEATHER PRODUCTS-----    | 392        | 218             | 110       |            |        |                        | 64       |           |        |
| 3211 GLASS AND GLASS PRODUCTS-----        | 3,314      | 196             | 4         |            |        | 152                    | 2,962    |           |        |
| 3241 BUILDING CEMENT-----                 | 879,103    | 6               | 5,900     | 480,836    |        |                        | 11,671   | 381,698   |        |
| 3251 STRUCTURAL CLAY PRODUCTS-----        | 92         |                 |           |            |        |                        | 92       |           |        |
| 3291 CUT STONE AND STONE PRODUCTS-----    | 132        | 132             |           |            |        |                        |          |           |        |
| 3291 MISC. NONMETALLIC MINERAL PROD-----  | 149        | 77              | 9         |            |        | 1                      | 62       |           |        |
| 3312 SLAG-----                            | 18,900     |                 | 8,590     |            |        |                        |          | 10,080    |        |
| 3314 IRON AND STEEL PRIMARY FORMS-----    | 13,902     | 4,480           |           |            |        | 8,928                  | 494      |           |        |
| 3315 IRON, STEEL SHAPES, EXC. SHEET-----  | 1,964      | 1,970           | 77        |            |        | 32                     | 285      |           |        |
| 3316 IRON AND STEEL PLATES, SHEETS-----   | 175,596    | 144,075         | 12,291    |            |        | 18,932                 | 288      |           |        |
| 3317 IRON AND STEEL PIPE AND TUBE-----    | 1,487      | 178             | 13        |            |        | 75                     | 1,221    |           |        |
| 3319 IRON AND STEEL PRODUCTS, NEC-----    | 3,051      | 213             | 2,766     |            |        | 5                      | 67       |           |        |
| 3321 NONFERROUS METALS, NEC-----          | 467        | 140             | 35        |            |        | 23                     | 269      |           |        |
| 3322 COPPER ALLOYS, UNWORKED-----         | 945        | 49              | 892       |            |        |                        | 4        |           |        |
| 3323 LEAD AND ZINC, UNWORKED-----         | 2,286      | 1,653           |           |            |        | 560                    | 73       |           |        |
| 3324 ALUMINUM AND ALLOYS, UNWORKED-----   | 398        | 10              | 108       |            |        | 1                      | 279      |           |        |
| 3411 FABRICATED METAL PRODUCTS-----       | 6,818      | 1,744           | 621       | 572        |        | 421                    | 3,460    |           |        |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----    | 28,292     | 22,719          | 1,293     |            |        | 1,180                  | 3,108    |           |        |
| 3611 ELECTRICAL MACH. AND EQUIP-----      | 9,552      | 5,308           | 322       |            |        | 1,897                  | 2,825    |           |        |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----    | 11,331     | 4,803           | 683       |            |        | 1,447                  | 4,476    |           |        |
| 3721 AIRCRAFT AND PARTS-----              | 12         | 8               |           |            |        | 4                      |          |           |        |
| 3731 SHIPS AND BOATS-----                 | 79         | 68              |           |            |        |                        | 11       |           |        |

## DETROIT, MICH., DISTRICT

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DETROIT RIVER, MICH.;--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

DOWNBOUND--CONTINUED

(SHORT TONS)

| COMMODITY                             | TOTAL   | THROUGH TRAFFIC |          |          |       | RECEIPTS AND SHIPMENTS |          |          |       |
|---------------------------------------|---------|-----------------|----------|----------|-------|------------------------|----------|----------|-------|
|                                       |         | FOREIGN         |          | DOMESTIC |       | FOREIGN                |          | DOMESTIC |       |
|                                       |         | OVERSEAS        | CANADIAN | LAKEWISE | OTHER | OVERSEAS               | CANADIAN | LAKEWISE | OTHER |
| 3791 MISC TRANSPORTATION EQUIPMENT--  | 476     | 154             | 315      | -----    | ----- | -----                  | 7        | -----    | ----- |
| 3811 INSTR, TIME, PHOTO, OPT GOODS--  | 504     | 220             | 49       | -----    | ----- | 143                    | 92       | -----    | ----- |
| 3911 MISC MANUFACTURED PRODUCTS-----  | 1,192   | 360             | 168      | -----    | ----- | 99                     | 557      | -----    | ----- |
| 4011 IRON AND STEEL SCRAP-----        | 696,764 | 207,890         | 26,537   | -----    | ----- | 497,864                | 4,473    | -----    | ----- |
| 4012 NONFERRROUS METAL SCRAP-----     | 6,881   | 1,604           | 143      | -----    | ----- | 989                    | 4,175    | -----    | ----- |
| 4022 TEXTILE WASTE, SCRAP, SWEEP----- | 6       | -----           | -----    | -----    | ----- | -----                  | 6        | -----    | ----- |
| 4024 PAPER WASTE AND SCRAP-----       | 81      | 44              | -----    | -----    | ----- | 37                     | -----    | -----    | ----- |
| 4112 COMMODITIES, NEC-----            | 231     | 92              | 6        | -----    | ----- | 27                     | 106      | -----    | ----- |
| 9999 DEPARTMENT OF DEFENSE AND SCI--  | 163     | 114             | 16       | -----    | ----- | -----                  | 33       | -----    | ----- |

TONS, ALL TRAFFIC, 92,072,833.  
TON-MILES, ALL TRAFFIC, 2,507,683,094.

DETROIT HARBOR, MICH.; (INCLUDED IN PORT OF DETROIT)

SECTION INCLUDED: U.S. BANK OF DETROIT RIVER FROM LAKE ST. CLAIR TO WESTERN EXTREME OF ZUG ISLAND. CONTROLLING DEPTH: CHANNEL NORTH OF BELLE ISLE 21 FEET. REMAINDER OF RIVER 29-28.5 FEET. PROJECT DEPTH: 28.5 FEET EXCEPT CHANNEL NORTH OF BELLE ISLE, 21 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS       | PASSENGERS | YEAR      | TONS       | PASSENGERS |
|-----------|------------|------------|-----------|------------|------------|
| 1971----- | 12,755,891 | 172        | 1976----- | 10,371,555 | 837,729    |
| 1972----- | 11,939,006 | 229        | 1977----- | 7,856,878  | 896,870    |
| 1973----- | 13,266,519 | 1,110,670  | 1978----- | 9,805,915  | 866,866    |
| 1974----- | 11,230,023 | 994,686    | 1979----- | 8,316,331  | 831,860    |
| 1975----- | 11,103,247 | 848,124    | 1980----- | 5,894,627  | 484,708    |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                                | TOTAL     | FOREIGN  |         |          |         | DOMESTIC  |        |
|--|-----------|----------|---------|----------|---------|-----------|--------|
|  |           | OVERSEAS |         | CANADIAN |         | LAKEWISE  | LOCAL  |
|  |           | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS | RECEIPTS  |        |
| TOTAL-----                               | 5,894,627 | 303,300  | 117,300 | 673,998  | 118,890 | 4,602,499 | 79,120 |
| 0103 CORN-----                           | 1,133     | -----    | 79      | -----    | 1,054   | -----     | -----  |
| 0104 OATS-----                           | 60        | -----    | -----   | -----    | 60      | -----     | -----  |
| 0119 OILSEEDS, NEC-----                  | 22        | -----    | 22      | -----    | -----   | -----     | -----  |
| 0121 TOBACCO, LEAF-----                  | 11,901    | 378      | -----   | 11,523   | -----   | -----     | -----  |
| 0129 FIELD CROPS, NEC-----               | 27        | -----    | 26      | 1        | -----   | -----     | -----  |
| 0131 FRESH FRUITS AND TREE NUTS-----     | 214       | -----    | -----   | -----    | 214     | -----     | -----  |
| 0141 FRESH AND FROZEN VEGETABLES-----    | 49,187    | -----    | 11,008  | -----    | 38,179  | -----     | -----  |
| 0181 ANIMALS AND PRODUCTS, NEC-----      | 331       | -----    | 7       | 81       | 243     | -----     | -----  |
| 0191 MISCELLANEOUS FARM PRODUCTS-----    | 28        | -----    | -----   | 28       | -----   | -----     | -----  |
| 0841 CRUDE RUBBER AND ALLIED GUMS-----   | 35        | -----    | -----   | 35       | -----   | -----     | -----  |
| 0861 FOREST PRODUCTS, NEC-----           | 24        | -----    | -----   | 24       | 4       | -----     | -----  |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----   | 3         | -----    | -----   | 3        | -----   | -----     | -----  |
| 1011 IRON ORE AND CONCENTRATES-----      | 2,573,108 | -----    | -----   | 348,859  | -----   | 2,224,249 | -----  |
| 1091 ALUMINUM ORES, CONCENTRATES-----    | 11        | -----    | -----   | 11       | -----   | -----     | -----  |
| 1091 NONFERRROUS ORES, CONCENT, NEC----- | 20        | -----    | 20      | -----    | -----   | -----     | -----  |
| 1121 COAL AND LIGNITE-----               | 1,415,448 | -----    | -----   | -----    | -----   | 1,415,448 | -----  |
| 1411 LIMESTONE-----                      | 989,499   | -----    | 10      | 12       | 7,214   | 978,495   | -----  |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----     | 192       | -----    | -----   | 44       | 148     | -----     | -----  |
| 1491 CLAY-----                           | 852       | 7        | 14      | 310      | 521     | -----     | -----  |
| 1499 NONMETALLIC MINERALS, NEC-----      | 71,232    | -----    | -----   | 69,949   | 1,283   | -----     | -----  |
| 1911 ORDNANCE AND ACCESSORIES-----       | 2         | -----    | -----   | 2        | -----   | -----     | -----  |
| 2011 MEAT, FRESH, CHILLED, FROZEN-----   | 199       | -----    | 20      | 179      | -----   | -----     | -----  |
| 2012 MEAT AND PRODUCTS, NEC-----         | 3         | -----    | -----   | 3        | -----   | -----     | -----  |
| 2014 TALLOW, ANIMAL FATS AND OILS-----   | 23,124    | -----    | 23,124  | -----    | -----   | -----     | -----  |
| 2015 ANIMAL BY-PRODUCTS, NEC-----        | 5,293     | -----    | 574     | -----    | 4,719   | -----     | -----  |
| 2021 DAIRY PRODUCTS, NEC-----            | 10        | -----    | -----   | 10       | -----   | -----     | -----  |
| 2022 DRIED MILK AND CREAM-----           | 15        | -----    | 9       | -----    | 6       | -----     | -----  |
| 2031 FISH AND SHELLFISH, PREPARED-----   | 81        | 1        | -----   | 80       | -----   | -----     | -----  |
| 2034 VEGETABLES AND PREP, NEC-----       | 332       | 40       | -----   | 33       | 259     | -----     | -----  |
| 2039 PREP FRUIT AND VEG JUICE, NEC-----  | 2,036     | 2        | 136     | 105      | 1,793   | -----     | -----  |
| 2042 PREPARED ANIMAL FEEDS-----          | 827       | -----    | 193     | 40       | 594     | -----     | -----  |
| 2049 GRAIN MILL PRODUCTS, NEC-----       | 2,884     | -----    | 1,959   | 109      | 796     | -----     | -----  |
| 2081 ALCOHOLIC BEVERAGES-----            | 9,694     | 6,156    | -----   | 3,471    | 27      | -----     | -----  |
| 2091 VEGETABLE OILS, HARD, SHORT-----    | 10        | -----    | 3       | 7        | -----   | -----     | -----  |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----    | 318       | 15       | 40      | 247      | 16      | -----     | -----  |
| 2111 TOBACCO MANUFACTURES-----           | 18        | -----    | -----   | -----    | 18      | -----     | -----  |
| 2211 BASIC TEXTILE PRODUCTS-----         | 685       | 233      | -----   | 361      | 91      | -----     | -----  |
| 2212 TEXTILE FIBERS, NEC-----            | 947       | 95       | -----   | 492      | -----   | -----     | -----  |
| 2311 APPAREL-----                        | 997       | -----    | 222     | 34       | 341     | -----     | -----  |
| 2413 FUEL WOOD, CHARCOAL, WASTES-----    | 69        | 69       | -----   | -----    | -----   | -----     | -----  |
| 2416 WOOD CHIPS, STAVES, MOLDINGS-----   | 1         | -----    | -----   | 1        | -----   | -----     | -----  |
| 2421 LUMBER-----                         | 327       | -----    | -----   | -----    | 326     | -----     | -----  |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----   | 75        | -----    | -----   | 25       | 50      | -----     | -----  |
| 2491 WOOD MANUFACTURES, NEC-----         | 195       | 4        | 25      | 29       | 137     | -----     | -----  |
| 2511 FURNITURE AND FIXTURES-----         | 1,417     | 203      | 57      | 439      | 722     | -----     | -----  |
| 2611 PAPER AND PAPERBOARD-----           | 1,849     | 882      | 241     | 662      | 324     | -----     | -----  |
| 2691 PULP AND PAPER PRODUCTS, NEC-----   | 668       | -----    | 69      | 38       | 561     | -----     | -----  |
| 2711 PRINTED MATTER-----                 | 868       | 43       | 13      | 245      | 567     | -----     | -----  |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----   | 124       | 16       | -----   | 106      | -----   | -----     | -----  |



## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

DETROIT HARBOR, MICH. (INCLUDED IN PORT OF DETROIT)--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL   | FOREIGN  |         |          |         | DOMESTIC |        |
|---|---------|----------|---------|----------|---------|----------|--------|
|   |         | OVERSEAS |         | CANADIAN |         | LAKEWISE | LOCAL  |
|   |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS | RECEIPTS |        |
| 2812 DYES, PIGMENT, TANNING MATS-----   | 5       |          |         |          |         | 5        |        |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 13,465  | 230      | 1,790   | 4,252    | 7,193   |          |        |
| 2821 PLASTIC MATERIALS-----             | 3,991   | 26       | 207     | 489      | 2,669   |          |        |
| 2822 SYNTHETIC RUBBER-----              | 1       |          |         |          |         | 1        |        |
| 2831 DRUGS-----                         | 465     | 6        | 133     | 42       | 264     |          |        |
| 2841 SOAP-----                          | 11,898  | 1        | 365     | 114      | 11,378  |          |        |
| 2891 PAINTS-----                        | 5,171   | 325      | 30      | 4,760    | 96      |          |        |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 1       |          |         | 1        |         |          |        |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 407     |          | 11      | 41       | 395     |          |        |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 122     |          |         | 122      |         |          |        |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 4,995   | 267      | 193     | 2,315    | 2,220   |          |        |
| 2911 GASOLINE-----                      | 7       |          |         |          | 7       |          |        |
| 2913 KEROSENE-----                      | 34      |          |         |          |         |          |        |
| 2914 DISTILLATE FUEL OIL-----           | 2,894   |          | 34      |          |         |          | 2,896  |
| 2919 RESIDUAL FUEL OIL-----             | 215,312 |          |         | 136,721  |         | 2,367    | 76,224 |
| 2916 LUBRICATING OILS AND GREASES-----  | 1,003   |          | 37      | 29       | 937     |          |        |
| 2918 ASPHALT, TAR, AND PITCHES-----     | 4,563   |          |         |          | 4,563   |          |        |
| 2951 ASPHALT BUILDING MATERIALS-----    | 9       |          |         |          | 9       |          |        |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 2,438   | 63       | 119     | 464      | 1,792   |          |        |
| 3111 LEATHER AND LEATHER PRODUCTS-----  | 726     | 31       |         | 631      | 64      |          |        |
| 3211 GLASS AND GLASS PRODUCTS-----      | 3,923   | 44       | 152     | 725      | 2,962   |          |        |
| 3241 BUILDING CEMENT-----               | 381,090 |          |         |          |         | 381,090  |        |
| 3291 STRUCTURAL CLAY PRODUCTS-----      | 2,002   | 635      |         | 1,275    | 92      |          |        |
| 3281 CUT STONE AND STONE PRODUCTS-----  | 1,482   | 688      |         | 794      |         |          |        |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 732     | 70       | 1       | 399      | 62      |          |        |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 7,997   | 4,579    |         | 2,924    | 494     |          |        |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 273,633 | 267,349  | 32      | 5,967    | 285     |          |        |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 19,413  | 2,010    | 11,896  | 219      | 288     |          |        |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 9,805   | 1,718    | 75      | 1,141    | 1,221   | 850      |        |
| 3318 FERROALLOYS-----                   | 1,654   |          |         | 1,654    |         |          |        |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 7,790   |          | 5       | 7,016    | 67      |          |        |
| 3321 NONFERROUS METALS, NEC-----        | 938     | 134      | 23      | 812      | 269     |          |        |
| 3322 COPPER ALLOYS, UNWORKED-----       | 992     | 33       |         | 955      | 4       |          |        |
| 3323 LEAD AND ZINC, UNWORKED-----       | 1,283   |          | 560     | 608      | 73      |          |        |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 1,344   | 264      | 1       | 770      | 279     |          |        |
| 3411 FABRICATED METAL PRODUCTS-----     | 9,339   | 2,469    | 417     | 2,963    | 3,460   |          |        |
| 3911 MACHINERY, EXCEPT ELECTRICAL-----  | 31,538  | 4,532    | 1,180   | 22,726   | 3,100   |          |        |
| 3411 ELECTRICAL MACH AND EQUIP-----     | 8,039   | 370      | 1,097   | 3,747    | 2,825   |          |        |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 27,723  | 2,581    | 1,434   | 19,230   | 4,478   |          |        |
| 3721 AIRCRAFT AND PARTS-----            | 4       |          | 4       |          |         |          |        |
| 3731 SHIPS AND BOATS-----               | 49      |          |         | 38       | 11      |          |        |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 68      |          |         | 61       | 7       |          |        |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 1,107   | 39       | 143     | 833      | 92      |          |        |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 1,236   | 48       | 99      | 512      | 557     |          |        |
| 4011 IRON AND STEEL SCRAP-----          | 74,155  | 5,898    | 58,397  | 7,936    | 1,924   |          |        |
| 4012 NONFERROUS METAL SCRAP-----        | 5,440   | 24       | 922     | 319      | 4,175   |          |        |
| 4022 TEXTILE WASTE, SCRAP, SWEEP-----   | 6       |          |         |          | 6       |          |        |
| 4024 PAPER WASTE AND SCRAP-----         | 37      |          | 37      |          |         |          |        |
| 4112 COMMODITIES, NEC-----              | 2,829   | 126      | 27      | 2,870    | 106     |          |        |
| 9999 DEPARTMENT OF DEFENSE AND SCI----- | 33      |          |         |          | 33      |          |        |

ROUGE RIVER, MICH. (INCLUDED IN PORT OF DETROIT)

SECTION INCLUDED: FROM THE MOUTH OF THE SHORT CUT CANAL TO THE FORD MOTOR COMPANY, CONTROLLING DEPTH: 20 FEET FOR A MINIMUM WIDTH OF 100 FEET FROM THE MOUTH OF THE SHORT CUT TO DIX AVENUE BRIDGE, WITH THE EXCEPTION OF SOME SHOAL AREAS, AND 20 FEET IN THE TURNING BASIN, EXCEPT NEAR THE SHORE, PROJECT DEPTH: 21.0 AND 25 FEET FROM MOUTH OF SHORT CUT CANAL TO A POINT 200 FEET DOWNSTREAM OF THE JEFFERSON AVENUE BRIDGE; THENCE 21 FEET TO AND INCLUDING THE TURNING BASIN IN MAIN CHANNEL.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS       | YEAR      | TONS       |
|-----------|------------|-----------|------------|
| 1971----- | 11,985,048 | 1976----- | 11,861,877 |
| 1972----- | 13,037,711 | 1977----- | 12,055,827 |
| 1973----- | 12,738,121 | 1978----- | 11,499,251 |
| 1974----- | 10,900,719 | 1979----- | 12,492,058 |
| 1975----- | 10,284,421 | 1980----- | 10,277,336 |

FREIGHT TRAFFIC, 1980

FOREIGN

(SHORT TONS)

| COMMODITY                              | TOTAL   | OVERSEAS |         | CANADIAN |         |
|--|---------|----------|---------|----------|---------|
|  |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |
| TOTAL-----                             | 543,136 | 73,861   | 329,770 | 124,889  | 14,696  |
| 1001 MANGANESE ORES, CONCENTRATES----- | 21,826  | 21,826   |         |          |         |
| 1499 NONMETALLIC MINERALS, NEC-----    | 109,108 |          |         | 109,108  |         |
| 2012 MEAT AND PRODUCTS, NEC-----       | 1       | 1        |         |          |         |
| 2014 TALLOW, ANIMAL FATS AND OILS----- | 1,395   |          | 1,395   |          |         |
| 2081 ALCOHOLIC BEVERAGES-----          | 276     | 276      |         |          |         |
| 2891 MISCELLANEOUS CHEMICAL PROD-----  | 190     | 190      |         |          |         |
| 2913 RESIDUAL FUEL OIL-----            | 7,397   |          |         | 7,397    |         |
| 2916 LUBRICATING OILS AND GREASES----- | 2,400   |          |         |          | 2,400   |
| 2920 COKE, PETROLEUM COKE-----         | 12,296  |          |         |          | 12,296  |

## DETROIT, MICH., DISTRICT

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ROUGE RIVER, MICH. (INCLUDED IN PORT OF DETROIT)--CONTINUED

FREIGHT TRAFFIC, 1988--CONTINUED

FOREIGN--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL   | OVERSEAS |         | CANADIAN |         |
|---|---------|----------|---------|----------|---------|
|   |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |
| 3291 STRUCTURAL CLAY PRODUCTS-----      | 99      | 99       |         |          |         |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 30,929  | 22,247   |         | 8,202    |         |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 1,202   | 201      | 979     | 22       |         |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 19      | 19       |         |          |         |
| 3318 FERROALLOYS-----                   | 27,633  | 27,633   |         |          |         |
| 3321 NONFERROUS METALS, NEC-----        | 1,096   | 1,096    |         |          |         |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 57      | 57       |         |          |         |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 41      | 41       |         |          |         |
| 4011 IRON AND STEEL SCRAP-----          | 327,396 |          | 327,396 |          |         |
| 4112 COMMODITIES, NEC-----              | 15      | 15       |         |          |         |

## DOMESTIC

(SHORT TONS)

| COMMODITY                              | TOTAL     | COASTWISE |           | LAKEWISE  |           | LOCAL   |
|--|-----------|-----------|-----------|-----------|-----------|---------|
|  |           | RECEIPTS  | SHIPMENTS | RECEIPTS  | SHIPMENTS |         |
| TOTAL-----                             | 9,734,200 | 47,164    | 10,471    | 9,141,216 | 277,932   | 237,417 |
| 1011 IRON ORE AND CONCENTRATES-----    | 3,048,964 |           |           | 3,048,964 |           |         |
| 1121 COAL AND LIGNITE-----             | 3,407,557 |           |           | 3,407,557 |           |         |
| 1411 LIMESTONE-----                    | 2,257,627 |           |           | 2,257,627 |           |         |
| 1494 GYPSUM, CRUDE AND PLASTERS-----   | 242,793   |           |           | 242,793   |           |         |
| 1499 NONMETALLIC MINERALS, NEC-----    | 10,488    |           |           |           | 10,488    |         |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS----- | 6,253     |           |           | 2,784     |           | 3,469   |
| 2911 GASOLINE-----                     | 35,147    |           |           |           | 31,422    | 3,725   |
| 2914 DISTILLATE FUEL OIL-----          | 45,676    |           |           | 1,448     | 23,232    | 20,996  |
| 2915 RESIDUAL FUEL OIL-----            | 402,890   |           | 10,471    | 99,787    | 33,465    | 208,227 |
| 2916 LUBRICATING OILS AND GREASES----- | 47,164    | 47,164    |           |           |           |         |
| 2918 ASPHALT, TAR, AND PITCHES-----    | 216,649   |           |           | 100,256   | 116,393   |         |
| 3312 SLAG-----                         | 12,992    |           |           |           | 12,992    |         |

TONS, ALL TRAFFIC, 10,277,336.

ECORSE, MICH. (INCLUDED IN PORT OF DETROIT)

SECTION INCLUDED: U.S. SHORE OF DETROIT RIVER FROM GREAT LAKES AVE. TO ECORSE RIVER, CONTROLLING DEPTH: 20 FEET, PROJECT DEPTH: NONE.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | YEAR      | TONS    |
|-----------|---------|-----------|---------|
| 1971----- | 822,598 | 1976----- | 635,556 |
| 1972----- | 737,664 | 1977----- | 902,054 |
| 1973----- | 711,827 | 1978----- | 726,162 |
| 1974----- | 647,501 | 1979----- | 316,877 |
| 1975----- | 715,437 | 1980----- | 369,816 |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL   | FOREIGN  |         | DOMESTIC |          |           | LOCAL   |
|---|---------|----------|---------|----------|----------|-----------|---------|
|   |         | OVERSEAS |         | CANADIAN | LAKEWISE |           |         |
|   |         | IMPORTS  | EXPORTS | IMPORTS  | RECEIPTS | SHIPMENTS |         |
| TOTAL-----                              | 369,816 | 33,562   | 87,665  | 10,903   | 77,711   | 35,193    | 124,784 |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 35      | 35       |         |          |          |           |         |
| 2631 PAPER AND PAPERBOARD-----          | 10      |          | 10      |          |          |           |         |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 929     |          | 929     |          |          |           |         |
| 2841 SOAP-----                          | 15      |          | 15      |          |          |           |         |
| 2915 RESIDUAL FUEL OIL-----             | 223,214 |          |         |          | 63,237   | 35,193    | 124,784 |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 1       |          | 1       |          |          |           |         |
| 3211 GLASS AND GLASS PRODUCTS-----      | 889     | 889      |         |          |          |           |         |
| 3311 PIG IRON-----                      | 14,474  |          |         |          | 14,474   |           |         |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 10,048  | 1,120    | 8,928   |          |          |           |         |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 39,895  | 30,263   | 9,632   |          |          |           |         |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 7,328   |          | 6,057   | 1,271    |          |           |         |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 75      | 75       |         |          |          |           |         |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 22      | 22       |         |          |          |           |         |
| 3411 FABRICATED METAL PRODUCTS-----     | 4       |          | 4       |          |          |           |         |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 1,076   | 1,076    |         |          |          |           |         |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 78      | 78       |         |          |          |           |         |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 13      | 2        | 13      |          |          |           |         |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 2       | 2        |         |          |          |           |         |
| 4011 IRON AND STEEL SCRAP-----          | 72,071  |          | 72,071  |          |          |           |         |
| 4012 NONFERROUS METAL SCRAP-----        | 37      |          | 37      |          |          |           |         |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

WYANDOTTE, MICH. (INCLUDED IN PORT OF DETROIT)

SECTION INCLUDED: U.S. SHORE OF DETROIT RIVER FROM ECORSE RIVER TO AND INCLUDING THE PENNSALT CHEMICAL CORP'S PROPERTY, CONTROLLING DEPTH: 27 FEET, PROJECT DEPTH: ROCK AREA 28 FEET, EARTH AREA 27 FEET,

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS      | PASSENGERS | YEAR | TONS      | PASSENGERS |
|------|-----------|------------|------|-----------|------------|
| 1971 | 1,850,726 |            | 1976 | 1,584,311 | 1,330      |
| 1972 | 1,593,597 |            | 1977 | 1,442,227 | 2,346      |
| 1973 | 1,865,385 | 1,278      | 1978 | 1,298,631 | 4,390      |
| 1974 | 1,632,678 | 151,210    | 1979 | 438,882   | 2,300      |
| 1975 | 1,497,875 | 125,442    | 1980 | 293,434   |            |

FREIGHT TRAFFIC, 1980  
(SHORT TONS)

| COMMODITY                | TOTAL   | FOREIGN  | DOMESTIC |       |
|--------------------------|---------|----------|----------|-------|
|                          |         | CANADIAN | LAKEWISE | LOCAL |
|                          |         | IMPORTS  | RECEIPTS |       |
| TOTAL                    | 293,434 | 25,330   | 263,066  | 5,068 |
| 1121 COAL AND LIGNITE    | 247,375 |          | 247,375  |       |
| 1411 LIMESTONE           | 15,661  |          | 15,661   |       |
| 2914 DISTILLATE FUEL OIL | 5,068   |          |          | 5,068 |
| 3241 BUILDING CEMENT     | 25,330  | 25,330   |          |       |

TRENTON, MICH. (INCLUDED IN PORT OF DETROIT)

SECTION INCLUDED: U.S. SHORE OF DETROIT RIVER FROM FOOT OF SIBLEY ROAD TO FOOT OF PARKWAY DRIVE, CONTROLLING AND PROJECT DEPTHS: 21 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS      | YEAR | TONS      |
|------|-----------|------|-----------|
| 1971 | 3,012,795 | 1976 | 3,059,758 |
| 1972 | 3,060,776 | 1977 | 3,131,059 |
| 1973 | 3,230,249 | 1978 | 3,704,651 |
| 1974 | 3,496,446 | 1979 | 3,615,949 |
| 1975 | 3,120,639 | 1980 | 2,652,790 |

FREIGHT TRAFFIC, 1980  
DOMESTIC  
(SHORT TONS)

| COMMODITY                      | TOTAL     | LAKEWISE  | LOCAL |
|--------------------------------|-----------|-----------|-------|
|                                |           | RECEIPTS  |       |
| TOTAL                          | 2,652,790 | 2,652,531 | 259   |
| 1011 IRON ORE AND CONCENTRATES | 1,970,189 | 1,970,189 |       |
| 1121 COAL AND LIGNITE          | 526,686   | 526,686   |       |
| 1411 LIMESTONE                 | 145,656   | 145,656   |       |
| 2915 RESIDUAL FUEL OIL         | 259       |           | 259   |
| 3312 SLAG                      | 10,000    | 10,000    |       |

PORT OF DETROIT, MICH.

SECTION INCLUDED: DETROIT HARBOR, ROUGE RIVER, ECORSE, WYANDOTTE, RIVERVIEW AND TRENTON, CONTROLLING AND PROJECT DEPTHS: SEE AFOREMENTIONED PROJECTS.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS       | PASSENGERS | YEAR | TONS       | PASSENGERS |
|------|------------|------------|------|------------|------------|
| 1971 | 30,051,909 | 172        | 1976 | 26,407,938 | 837,725    |
| 1972 | 29,913,128 | 229        | 1977 | 25,092,847 | 896,072    |
| 1973 | 31,541,566 | 1,110,670  | 1978 | 25,881,508 | 866,866    |
| 1974 | 27,941,167 | 1,141,012  | 1979 | 24,995,987 | 831,860    |
| 1975 | 26,487,866 | 968,844    | 1980 | 19,268,443 | 484,708    |

FREIGHT TRAFFIC, 1980  
(SHORT TONS)

| COMMODITY | TOTAL      | FOREIGN  |         |          |         | DOMESTIC  |            |           |         | LOCAL |
|-----------|------------|----------|---------|----------|---------|-----------|------------|-----------|---------|-------|
|           |            | OVERSEAS |         | CANADIAN |         | COASTWISE | LAKEWISE   |           |         |       |
|           |            | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |           | RECEIPTS   | SHIPMENTS |         |       |
| TOTAL     | 19,266,443 | 410,723  | 534,733 | 834,640  | 133,546 | 47,164    | 16,756,993 | 313,125   | 237,557 |       |
| 0103 CORN | 1,133      |          | 79      |          | 1,054   |           |            |           |         |       |
| 0104 OATS | 93         |          |         |          | 60      |           |            |           |         |       |

## DETROIT, MICH., DISTRICT

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PORT OF DETROIT, MICH.--CONTINUED

FREIGHT TRAFFIC, 1988--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL     | FOREIGN  |         |          |         | DOMESTIC  |             |           | LOCAL |
|---|-----------|----------|---------|----------|---------|-----------|-------------|-----------|-------|
|   |           | OVERSEAS |         | CANADIAN |         | COASTWISE | LAKE/INLAND |           |       |
|   |           | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS | RECEIPTS  | RECEIPTS    | SHIPMENTS |       |
| 0119 OILSEEDS, NEC-----                 | 22        |          | 22      |          |         |           |             |           |       |
| 0121 TOBACCO, LEAF-----                 | 11,981    | 378      |         | 11,593   |         |           |             |           |       |
| 0129 FIELD CROPS, NEC-----              | 27        |          | 26      | 1        |         |           |             |           |       |
| 0131 FRESH FRUITS AND TREE NUTS-----    | 214       |          |         |          | 214     |           |             |           |       |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 49,187    |          | 11,088  |          | 38,179  |           |             |           |       |
| 0191 ANIMALS AND PRODUCTS, NEC-----     | 331       |          | 7       | 61       | 243     |           |             |           |       |
| 0191 MISCELLANEOUS FARM PRODUCTS-----   | 28        |          |         | 28       |         |           |             |           |       |
| 0841 CRUDE RUBBER AND ALLIED GUMS-----  | 35        |          |         | 35       |         |           |             |           |       |
| 0841 FOREST PRODUCTS, NEC-----          | 24        |          |         | 20       | 4       |           |             |           |       |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 3         |          |         | 3        |         |           |             |           |       |
| 1011 IRON ORE AND CONCENTRATES-----     | 7,592,261 |          |         | 348,859  |         | 7,243,402 |             |           |       |
| 1091 ALUMINUM ORES, CONCENTRATES-----   | 11        |          |         | 11       |         |           |             |           |       |
| 1061 MANGANESE ORES, CONCENTRATES-----  | 21,826    | 21,826   |         |          |         |           |             |           |       |
| 1091 NONFERROUS ORES, CONCENT, NEC----- | 20        |          | 20      |          |         |           |             |           |       |
| 1121 COAL AND LIGNITE-----              | 5,597,066 |          |         |          |         | 5,597,066 |             |           |       |
| 1411 LIMESTONE-----                     | 3,004,643 |          | 18      |          | 7,214   | 2,997,399 |             |           |       |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 192       |          | 44      |          | 148     |           |             |           |       |
| 1451 CLAY-----                          | 852       | 7        | 14      | 310      | 521     |           |             |           |       |
| 1494 GYPSUM, CRUDE AND PLASTERS-----    | 242,793   |          |         |          |         | 242,793   |             |           |       |
| 1499 NONMETALLIC MINERALS, NEC-----     | 190,828   |          |         | 179,057  | 1,283   |           |             | 10,488    |       |
| 1911 ORDNANCE AND ACCESSORIES-----      | 2         |          |         | 2        |         |           |             |           |       |
| 2011 MEAT, FRESH, CHILLED, FROZEN-----  | 199       |          | 20      | 179      |         |           |             |           |       |
| 2012 MEAT AND PRODUCTS, NEC-----        | 4         | 1        |         | 3        |         |           |             |           |       |
| 2014 TALLOW, ANIMAL FATS AND OILS-----  | 24,519    |          | 24,519  |          |         |           |             |           |       |
| 2015 ANIMAL BY-PRODUCTS, NEC-----       | 5,293     |          | 974     |          | 4,719   |           |             |           |       |
| 2021 DAIRY PRODUCTS, NEC-----           | 10        |          |         | 10       |         |           |             |           |       |
| 2022 DRIED MILK AND CREAM-----          | 15        |          | 9       |          | 6       |           |             |           |       |
| 2031 FISH AND SHELLFISH, PREPARED-----  | 81        | 1        |         | 80       |         |           |             |           |       |
| 2034 VEGETABLES AND PREP, NEC-----      | 332       | 40       |         | 33       | 259     |           |             |           |       |
| 2039 PREP FRUIT AND VEG JUICE, NEC----- | 2,036     | 2        | 136     | 105      | 1,793   |           |             |           |       |
| 2042 PREPARED ANIMAL FEEDS-----         | 827       |          | 193     | 40       | 594     |           |             |           |       |
| 2049 GRAIN MILL PRODUCTS, NEC-----      | 2,864     |          | 1,959   | 109      | 796     |           |             |           |       |
| 2081 ALCOHOLIC BEVERAGES-----           | 9,930     | 6,432    |         | 3,471    | 27      |           |             |           |       |
| 2091 VEGETABLE OILS, MARG, SHORT-----   | 10        |          | 3       | 7        |         |           |             |           |       |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 318       | 15       | 40      | 247      | 16      |           |             |           |       |
| 2111 TOBACCO MANUFACTURES-----          | 18        |          |         |          | 18      |           |             |           |       |
| 2211 BASIC TEXTILE PRODUCTS-----        | 689       | 233      |         | 361      | 91      |           |             |           |       |
| 2212 TEXTILE FIBERS, NEC-----           | 547       | 55       |         | 492      |         |           |             |           |       |
| 2311 APPAREL-----                       | 597       |          | 222     | 34       | 341     |           |             |           |       |
| 2413 FUEL WOOD, CHARCOAL, WASTES-----   | 69        | 69       |         |          |         |           |             |           |       |
| 2416 WOOD CHIPS, STAVES, HOLDINGS-----  | 1         |          |         | 1        |         |           |             |           |       |
| 2421 LUMBER-----                        | 327       |          |         |          | 326     |           |             |           |       |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 110       | 35       |         | 25       | 50      |           |             |           |       |
| 2491 WOOD MANUFACTURES, NEC-----        | 195       | 4        | 25      | 29       | 137     |           |             |           |       |
| 2511 FURNITURE AND FIXTURES-----        | 1,417     | 203      | 97      | 435      | 722     |           |             |           |       |
| 2631 PAPER AND PAPERBOARD-----          | 1,859     | 682      | 251     | 662      | 324     |           |             |           |       |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 668       |          | 69      | 38       | 561     |           |             |           |       |
| 2711 PRINTED MATTER-----                | 866       | 43       | 13      | 245      | 567     |           |             |           |       |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 6,377     | 18       |         | 106      |         |           | 2,784       |           | 3,469 |
| 2812 DYES, PIGMENT, TANNING MATS-----   | 5         |          |         |          |         |           |             |           |       |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 13,994    | 230      | 2,319   | 4,252    | 7,193   |           |             |           |       |
| 2821 PLASTIC MATERIALS-----             | 3,591     | 26       | 207     | 469      | 2,869   |           |             |           |       |
| 2822 SYNTHETIC RUBBER-----              | 1         |          |         |          | 1       |           |             |           |       |
| 2831 DRUGS-----                         | 445       | 6        | 133     | 42       | 264     |           |             |           |       |
| 2841 SOAP-----                          | 11,873    | 1        | 380     | 114      | 11,378  |           |             |           |       |
| 2891 PAINTS-----                        | 5,171     | 325      | 30      | 4,760    | 56      |           |             |           |       |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 1         |          |         | 1        |         |           |             |           |       |
| 2876 INSECTICIDES, DISINFECTANTS-----   | 407       |          | 11      | 41       | 355     |           |             |           |       |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 122       |          |         | 122      |         |           |             |           |       |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 5,185     | 457      | 193     | 2,315    | 2,220   |           |             |           |       |
| 2911 GASOLINE-----                      | 35,154    |          |         |          | 7       |           |             | 31,422    | 3,725 |
| 2913 KEROSENE-----                      | 34        |          | 34      |          |         |           |             |           |       |
| 2914 DISTILLATE FUEL OIL-----           | 45,676    |          |         |          |         | 1,448     | 23,232      | 20,996    |       |
| 2915 RESIDUAL FUEL OIL-----             | 637,474   |          |         | 144,118  |         | 165,391   | 118,598     | 209,367   |       |
| 2916 LUBRICATING OILS AND GREASES-----  | 50,567    |          | 37      | 29       | 3,337   | 47,164    |             |           |       |
| 2918 ASPHALT, TAR, AND PITCHES-----     | 221,212   |          |         |          | 4,563   |           | 100,256     | 116,393   |       |
| 2920 COKE, PETROLEUM COKE-----          | 12,296    |          |         |          | 12,296  |           |             |           |       |
| 2991 ASPHALT BUILDING MATERIALS-----    | 9         |          |         |          | 9       |           |             |           |       |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 2,439     | 63       | 120     | 444      | 1,792   |           |             |           |       |
| 3111 LEATHER AND LEATHER PRODUCTS-----  | 726       | 31       |         | 631      | 64      |           |             |           |       |
| 3211 GLASS AND GLASS PRODUCTS-----      | 4,812     | 973      | 192     | 725      | 2,962   |           |             |           |       |
| 3241 BUILDING CEMENT-----               | 406,420   |          |         | 25,330   |         | 381,090   |             |           |       |
| 3251 STRUCTURAL CLAY PRODUCTS-----      | 2,061     | 694      |         | 1,275    | 92      |           |             |           |       |
| 3281 CUT STONE AND STONE PRODUCTS-----  | 1,482     | 688      |         | 764      |         |           |             |           |       |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 732       | 70       | 1       | 569      | 62      |           |             |           |       |
| 3311 PIG IRON-----                      | 14,474    |          |         |          |         |           | 14,474      |           |       |
| 3312 SLAG-----                          | 22,992    |          |         |          |         |           | 10,000      | 12,992    |       |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 18,845    | 5,699    | 8,928   | 2,924    | 494     |           |             |           |       |
| 3315 IRON, STEEL SHAPES, ETC SHEET----- | 344,057   | 319,899  | 32      | 23,081   | 285     |           |             |           |       |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 22,943    | 2,211    | 10,932  | 1,512    | 288     |           |             |           |       |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 5,099     | 1,812    | 75      | 1,141    | 1,221   |           | 850         |           |       |
| 3318 FERRCALLOYS-----                   | 29,487    | 27,833   |         | 1,654    |         |           |             |           |       |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 7,772     | 684      | 5       | 7,016    | 67      |           |             |           |       |
| 3321 NONFERROUS METALS, NEC-----        | 2,034     | 1,230    | 23      | 512      | 269     |           |             |           |       |
| 3322 COPPER ALLOYS, UNWORKED-----       | 992       |          |         | 955      | 4       |           |             |           |       |
| 3323 LEAD AND ZINC, UNWORKED-----       | 1,283     | 50       | 580     | 600      | 73      |           |             |           |       |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 1,346     | 296      | 1       | 770      | 279     |           |             |           |       |
| 3411 FABRICATED METAL PRODUCTS-----     | 9,343     | 2,499    | 421     | 2,963    | 3,460   |           |             |           |       |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 32,671    | 5,665    | 1,180   | 22,726   | 3,180   |           |             |           |       |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 8,117     | 448      | 1,097   | 3,747    | 2,825   |           |             |           |       |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 27,779    | 2,624    | 1,447   | 19,230   | 4,476   |           |             |           |       |
| 3721 AIRCRAFT AND PARTS-----            | 4         |          | 4       |          |         |           |             |           |       |
| 3731 SHIPS AND BOATS-----               | 49        |          |         | 38       | 11      |           |             |           |       |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 68        |          |         | 61       | 7       |           |             |           |       |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

PORT OF DETROIT, MICH.--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

(SHORT TONS)

| COMMODITY                            | TOTAL   | FOREIGN  |         |          |         | DOMESTIC  |          |           |       | LOCAL |
|--------------------------------------|---------|----------|---------|----------|---------|-----------|----------|-----------|-------|-------|
|                                      |         | OVERSEAS |         | CANADIAN |         | COASTWISE | LAKEWISE |           |       |       |
|                                      |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |           | RECEIPTS | SHIPMENTS |       |       |
| 3811 INSTR, TIME, PHOTO, OPT GOODS-- | 1,187   | 39       | 143     | 833      | 92      | -----     | -----    | -----     | ----- |       |
| 3911 MISC MANUFACTURED PRODUCTS----  | 1,238   | 70       | 99      | 512      | 557     | -----     | -----    | -----     | ----- |       |
| 4011 IRON AND STEEL SCRAP-----       | 473,622 | 5,898    | 497,864 | 7,936    | 1,924   | -----     | -----    | -----     | ----- |       |
| 4012 NONFERROUS METAL SCRAP-----     | 5,477   | 24       | 999     | 319      | 4,175   | -----     | -----    | -----     | ----- |       |
| 4022 TEXTILE WASTE, SCRAP, SWEEP---- | 6       | -----    | -----   | -----    | 6       | -----     | -----    | -----     | ----- |       |
| 4024 PAPER WASTE AND SCRAP-----      | 37      | -----    | 37      | -----    | -----   | -----     | -----    | -----     | ----- |       |
| 4112 COMMODITIES, NEC-----           | 2,844   | 141      | 27      | 2,570    | 106     | -----     | -----    | -----     | ----- |       |
| 9999 DEPARTMENT OF DEFENSE AND SCI-- | 33      | -----    | -----   | -----    | 33      | -----     | -----    | -----     | ----- |       |

MONROE HARBOR, MICH.

SECTION INCLUDED: CHANNEL IN LAKE ERIE AND 9500 FEET ABOVE RAISIN RIVER. CONTROLLING DEPTH: 20 FEET TO TURNING BASIN OVER A CENTER WIDTH OF 150 FEET; 12 FEET IN TURNING BASIN EXCEPT NEAR THE SHORE; 9.5 FEET IN 9 FOOT CHANNEL. PROJECT DEPTH: 21 FEET TO THE TURNING BASIN; 10 FEET IN THE TURNING BASIN; 9 FEET TO LOWER DOCKS AT MONROE. NAVIGATION SEASON: 20 APRIL TO 14 DECEMBER.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | PASSENGERS | YEAR      | TONS      | PASSENGERS |
|-----------|-----------|------------|-----------|-----------|------------|
| 1971----- | 31,086    | -----      | 1976----- | 972,893   | -----      |
| 1972----- | 30,216    | -----      | 1977----- | 1,321,348 | -----      |
| 1973----- | 37,400    | 2980       | 1978----- | 2,374,166 | -----      |
| 1974----- | 215,623   | -----      | 1979----- | 2,662,768 | -----      |
| 1975----- | 1,184,689 | -----      | 1980----- | 2,768,541 | -----      |

FREIGHT TRAFFIC, 1980

DOMESTIC

(SHORT TONS)

| COMMODITY                      | LAKEWISE  |
|--------------------------------|-----------|
| TOTAL-----                     | RECEIPTS  |
| 1121 COAL AND LIGNITE-----     | 2,768,541 |
| 2920 COKE, PETROLEUM COKE----- | 2,759,387 |
|                                | 9,154     |

## DETROIT, MICH., DISTRICT

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## OTHER HARBORS AND WATERWAYS

| HARBOR OR WATERWAY   | COMMODITY                               | TONS    | PASSENGERS |
|--|---|---------|------------|
| PROJECT  |   |         |            |
| ALBONAC, MICH. (INCLUDED IN ST. CLAIR RIVER)-----              |   |         | 82,818     |
| AU SABLE HARBOR AND RIVER (OSCODA), MICH.-----                 | NO COMMERCE REPORTED                    |         |            |
| BIG BAY HARBOR, MICH.-----                                     | NO COMMERCE REPORTED                    |         |            |
| BLACK RIVER HARBOR, MICH.-----                                 | NO COMMERCE REPORTED                    |         |            |
| CASEVILLE, MICH.-----  | NO COMMERCE REPORTED                    |         |            |
| CEDAR RIVER HARBOR, MICH.-----                                 | NO COMMERCE REPORTED                    |         |            |
| CHARLEVOIX HARBOR, MICH.-----                                  | 1121 COAL AND LIGNITE-----              | 132,429 |            |
|  | 1411 LIMESTONE-----                     | 8,787   |            |
|  | 2911 GASOLINE-----                      | 442     |            |
|  | 2914 DISTILLATE FUEL OIL-----           | 354     |            |
|  | 4112 COMMODITIES, NEC-----              | 7,461   |            |
|  | TOTAL-----                              | 144,473 | 18,213     |
| CHEBOYGAN HARBOR, MICH.-----                                   | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 4       |            |
|  | 2911 GASOLINE-----                      | 75,920  |            |
|  | 2914 DISTILLATE FUEL OIL-----           | 34,617  |            |
|  | TOTAL-----                              | 110,541 | 18,003     |
| DETOUR, MICH., AND VICINITY (INCLUDED IN ST. MARYS RIVER)----- | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 85      | 218,026    |
| EAGLE HARBOR, MICH.-----                                       | NO COMMERCE REPORTED                    |         |            |
| GLADSTONE HARBOR, MICH.-----                                   | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 144     |            |
|  | 1411 LIMESTONE-----                     | 11,423  |            |
|  | 2911 GASOLINE-----                      | 98,654  |            |
|  | 2914 DISTILLATE FUEL OIL-----           | 34,201  |            |
|  | TOTAL-----                              | 144,422 |            |
| GRAND MARAIS HARBOR (HARBOR OF REFUGE), MICH.-----             | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 45      |            |
| GRAND TRAVERSE BAY HARBOR, MICH.-----                          | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 16      |            |
| HARBOR BEACH, MICH., HARBOR OF REFUGE, LAKE HURON-----         | 1121 COAL AND LIGNITE-----              | 180,647 |            |
| HARRISVILLE HARBOR, MICH., HARBOR OF REFUGE; LAKE HURON-----   | 2912 JET FUEL-----                      | 43,516  |            |
| KENEENAW WATERWAY, MICH.-----                                  | 0102 BARLEY AND RYE-----                | 6,482   |            |
|  | 0104 OATS-----                          | 3,004   |            |
|  | 0107 WHEAT-----                         | 69,192  |            |
|  | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 194     |            |
|  | 1121 COAL AND LIGNITE-----              | 76,675  |            |
|  | 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 400     |            |
|  | 2094 GROCERIES-----                     | 34      |            |
|  | 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 106     |            |
|  | 2911 GASOLINE-----                      | 17,395  |            |
|  | 2912 JET FUEL-----                      | 2       |            |
|  | 2914 DISTILLATE FUEL OIL-----           | 12,021  |            |
|  | 3291 MISC NONMETALLIC MINERAL PROD----- | 100     |            |
|  | 3411 FABRICATED METAL PRODUCTS-----     | 45      |            |
|  | 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 13      |            |
|  | 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 21      |            |
|  | 3731 SHIPS AND BOATS-----               | 180     |            |
|  | 3911 MISC MANUFACTURED PRODUCTS-----    | 81      |            |
|  | 4012 NONFERROUS METAL SCRAP-----        | 50      |            |
|  | 4112 COMMODITIES, NEC-----              | 686     |            |
|  | TOTAL-----                              | 186,681 | 11,686     |
| LAC LA BELLE HARBOR, MICH.-----                                | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 13      |            |
| LELAND HARBOR, MICH.-----                                      | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 41      |            |
|  | 2911 GASOLINE-----                      | 11      |            |
|  | 2914 DISTILLATE FUEL OIL-----           | 9       |            |
|  | 2921 LIQUEFIED GASES-----               | 10      |            |
|  | 4112 COMMODITIES, NEC-----              | 430     |            |
|  | TOTAL-----                              | 501     | 30,400     |
| LINE ISLAND, MICH. (INCLUDED IN ST. MARYS RIVER)-----          | 1121 COAL AND LIGNITE-----              | 9,072   |            |
|  | 2915 RESIDUAL FUEL OIL-----             | 7,448   |            |
|  | TOTAL-----                              | 16,520  |            |
| MACKINAC HARBOR, MICH.-----                                    | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 70      |            |
|  | 1411 LIMESTONE-----                     | 8,514   |            |
|  | 4112 COMMODITIES, NEC-----              | 7,813   |            |
|  | TOTAL-----                              | 16,397  | 678,394    |
| MACKINAW CITY HARBOR, MICH.-----                               | 2911 GASOLINE-----                      | 69,887  |            |
|  | 2914 DISTILLATE FUEL OIL-----           | 7,359   |            |
|  | 4112 COMMODITIES, NEC-----              | 1,696   |            |
|  | TOTAL-----                              | 74,942  | 361,268    |
| MANISTEE HARBOR, MICH.-----                                    | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 12      |            |
|  | 1121 COAL AND LIGNITE-----              | 116,997 |            |
|  | 1499 NONMETALLIC MINERALS, NEC-----     | 51,224  |            |
|  | 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 17,908  |            |
|  | TOTAL-----                              | 185,741 |            |

## OTHER HARBORS AND WATERWAYS--CONTINUED

| HARBOR OR WATERWAY                                   | COMMODITY                          | TONS       | PASSENGERS |
|--|------------------------------------|------------|------------|
| PROJECT--CONTINUED                                   |                                    |            |            |
| MANISTIQUE HARBOR, MICH.                             | 0011 FRESH FISH, EXCEPT SHELLFISH  | 31         |            |
| MARQUETTE HARBOR, MICH.                              | 0011 FRESH FISH, EXCEPT SHELLFISH  | 111        |            |
|  | 1121 COAL AND LIGNITE              | 74,565     |            |
|  | 2819 BASIC CHEMICALS AND PROD, NEC | 2,624      |            |
|  | TOTAL                              | 77,300     |            |
| NEW BUFFALO HARBOR MICHIGAN                          | NO COMMERCE REPORTED               |            |            |
| ONTONAGON HARBOR, MICH.                              | 0011 FRESH FISH, EXCEPT SHELLFISH  | 4          |            |
| PENTWATER HARBOR, MICH.                              | NO COMMERCE REPORTED               |            |            |
| PORT SANILAC HARBOR, MICH.                           | NO COMMERCE REPORTED               |            |            |
| PUT-IN-BAY HARBOR, OHIO                              | 2011 GASOLINE                      | 40         |            |
|  | 2014 DISTILLATE FUEL OIL           | 266        |            |
|  | 3911 MACHINERY, EXCEPT ELECTRICAL  | 150        |            |
|  | 4112 COMMODITIES, NEC              | 6,233      |            |
|  | TOTAL                              | 6,689      | 371,061    |
| ROGERS CITY, MICH.                                   | 0011 FRESH FISH, EXCEPT SHELLFISH  | 63         |            |
| SAUGATUCK HARBOR AND KALAMAZOO RIVER, MICH.          | NO COMMERCE REPORTED               |            |            |
| SAULT STE MARIE, MICH. (INCLUDED IN ST. MARYS RIVER) | 2081 ALCOHOLIC BEVERAGES           | 233        |            |
|  | 2011 GASOLINE                      | 26,822     |            |
|  | 2014 DISTILLATE FUEL OIL           | 25,053     |            |
|  | 2019 RESIDUAL FUEL OIL             | 50         |            |
|  | 3281 CUT STONE AND STONE PRODUCTS  | 74         |            |
|  | TOTAL                              | 52,232     | 388,196    |
| SEBEMAWING, MICH.                                    | 0011 FRESH FISH, EXCEPT SHELLFISH  | 53         |            |
| SOUTH HAVEN HARBOR, MICH.                            | NO COMMERCE REPORTED               |            |            |
| ST. JAMES (BEAVER ISLAND), MICH.                     | 0011 FRESH FISH, EXCEPT SHELLFISH  | 51         |            |
|  | 2011 GASOLINE                      | 442        |            |
|  | 2014 DISTILLATE FUEL OIL           | 354        |            |
|  | 4112 COMMODITIES, NEC              | 2,461      |            |
|  | TOTAL                              | 3,308      | 18,215     |
| WHITE LAKE HARBOR, MICH.                             | NO COMMERCE REPORTED               |            |            |
| WHITEFISH POINT HARBOR, MICH.                        | NO COMMERCE REPORTED               |            |            |
| NONPROJECT   |                                    |            |            |
| ALABASTER, MICH.                                     | 1494 GYPSUM, CRUDE AND PLASTERS    | 389,864    |            |
| CALCITE, MICH.                                       | 1411 LIMESTONE                     | 7,427,977  |            |
|  | 2873 PHOSPHATIC CHEM FERTILIZERS   | 24,179     |            |
|  | TOTAL                              | 7,452,156  |            |
| ESCANABA, MICH.                                      | 0011 FRESH FISH, EXCEPT SHELLFISH  | 48         |            |
|  | 1011 IRON ORE AND CONCENTRATES     | 13,861,802 |            |
|  | 1121 COAL AND LIGNITE              | 235,883    |            |
|  | 2410 WOOD CHIPS, STAVES, HOLDINGS  | 1,660      |            |
|  | 2011 GASOLINE                      | 68,098     |            |
|  | 2014 DISTILLATE FUEL OIL           | 73,127     |            |
|  | TOTAL                              | 11,240,610 |            |
| MARBLEHEAD, OHIO                                     | 1411 LIMESTONE                     | 1,030,290  | 153,402    |
| PETOSKEY PENN DIXIE HARBOR, MICH.                    | 1121 COAL AND LIGNITE              | 195,883    |            |
|  | 3241 BUILDING CEMENT               | 175,998    |            |
|  | TOTAL                              | 371,881    |            |
| PORT DOLOMITE, MICH.                                 | 1411 LIMESTONE                     | 2,978,917  |            |
| PORT GYPSUM, MICH.                                   | 1494 GYPSUM, CRUDE AND PLASTERS    | 335,907    |            |
| PORT INLAND, MICH.                                   | 1411 LIMESTONE                     | 3,005,691  |            |
| STONEPORT, MICH.                                     | 1411 LIMESTONE                     | 7,341,278  |            |
|  | 1499 NONMETALLIC MINERALS, NEC     | 13,024     |            |
|  | 3411 FABRICATED METAL PRODUCTS     | 8          |            |
|  | TOTAL                              | 7,354,310  |            |

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SECTION INCLUDED: CHANNEL IN LAKE ERIE AND 7 MILES IN LOWER MAUMEE RIVER, CONTROLLING DEPTHS: 20 FEET IN THE BAY CHANNEL, 27 FEET IN THE RIVER CHANNEL OVER 300 FOOT WIDTH FOR 3 MILES UPSTREAM FROM THE MOUTH THEN REDUCING TO A CENTER WIDTH OF 200 FEET AT 27 FEET, AND 25 FEET OVER REMAINING 400 FOOT CHANNEL UPSTREAM TO THE MID-STATES TERMINALS, INC. DOCK; THENCE 17 FEET TO THE TURNING BASIN AT THE UPPER PROJECT LIMITS WITH 13 FEET IN THE TURNING BASIN; 20 FEET IN THE TURNING BASIN AT MILE 3 AND 27 FEET IN THE TURNING BASIN AT MILE 6.5, PROJECT DEPTHS: 26 FEET IN BAY AND 27 FEET IN THE RIVER CHANNEL TO THE TURNING BASIN OPPOSITE THE MID-STATES TERMINALS, INC. DOCK; THENCE 25 FEET TO THE TURNING BASIN AT UPSTREAM LIMITS OF THE PROJECT WITH 18 FEET IN THE TURNING BASIN; 20 FEET IN THE TURNING BASIN AT MILE 3 AND 27 FEET IN THE TURNING BASIN AT MILE 6.5. NAVIGATION SEASON: MARCH 1 TO DECEMBER 31.

| YEAR | TONS       | PASSENGERS | YEAR | TONS       | PASSENGERS |
|------|------------|------------|------|------------|------------|
| 1971 | 27,310,667 | 16,074     | 1976 | 25,801,674 | 24,192     |
| 1972 | 25,240,950 | 11,180     | 1977 | 23,275,707 | -          |
| 1973 | 24,921,753 | 22,904     | 1978 | 27,971,410 | 10,820     |
| 1974 | 21,556,519 | 15,699     | 1979 | 26,256,355 | 10,920     |
| 1975 | 23,620,027 | 16,036     | 1980 | 22,263,285 | 22,800     |

| COMMODITY                               | TOTAL      | FOREIGN  |           |          |           |           |           | DOMESTIC LAKEWISE |  |         | LOCAL |  |
|---|------------|----------|-----------|----------|-----------|-----------|-----------|-------------------|--|---------|-------|--|
|   |            | OVERSEAS |           | CANADIAN |           | COASTWISE |           |                   |  |         |       |  |
|   |            | IMPORTS  | EXPORTS   | IMPORTS  | EXPORTS   | SHIPMENTS | RECEIPTS  | SHIPMENTS         |  |         |       |  |
| TOTAL-----                              | 22,263,285 | 292,525  | 1,160,179 | 369,291  | 7,137,599 | 12,491    | 3,169,549 | 9,986,148         |  | 255,943 |       |  |
| 0103 CORN-----                          | 2,948,016  |          | 496,176   |          | 2,451,842 |           |           |                   |  |         |       |  |
| 0107 WHEAT-----                         | 376,087    |          | 35,334    |          | 312,836   |           |           |                   |  |         |       |  |
| 0111 SOYBEANS-----                      | 1,453,765  |          | 479,181   |          | 974,584   |           |           |                   |  |         |       |  |
| 0121 TOBACCO, LEAF-----                 | 161        |          |           | 161      |           |           |           |                   |  |         |       |  |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 568        |          |           |          |           |           |           |                   |  |         | 568   |  |
| 1011 IRON ORE AND CONCENTRATES-----     | 2,763,354  |          |           | 65,001   |           |           | 2,698,353 |                   |  |         |       |  |
| 1121 COAL AND LIGNITE-----              | 12,750,608 |          |           |          | 3,292,395 |           | 20,000    | 9,438,213         |  |         |       |  |
| 1411 LIMESTONE-----                     | 54,256     |          |           |          |           |           | 54,256    |                   |  |         |       |  |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 245,534    |          |           | 4,313    |           |           |           |                   |  | 241,223 |       |  |
| 1499 NONMETALLIC MINERALS, NEC-----     | 141,923    |          |           |          |           |           | 141,923   |                   |  |         |       |  |
| 2034 VEGETABLES AND PREP, NEC-----      | 4          |          | 4         |          |           |           |           |                   |  |         |       |  |
| 2042 PREPARED ANIMAL FEEDS-----         | 16,703     |          | 16,703    |          |           |           |           |                   |  |         |       |  |
| 2061 SUGAR-----                         | 55,117     | 55,117   |           |          |           |           |           |                   |  |         |       |  |
| 2081 ALCOHOLIC BEVERAGES-----           | 327        | 327      |           |          |           |           |           |                   |  |         |       |  |
| 2211 BASIC TEXTILE PRODUCTS-----        | 701        | 701      |           |          |           |           |           |                   |  |         |       |  |
| 2411 LOGS-----                          | 14,765     |          | 14,765    |          |           |           |           |                   |  |         |       |  |
| 2421 LUMBER-----                        | 197        |          | 197       |          |           |           |           |                   |  |         |       |  |
| 2631 PAPER AND PAPERBOARD-----          | 38,453     |          |           | 38,453   |           |           |           |                   |  |         |       |  |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 1          | 1        |           |          |           |           |           |                   |  |         |       |  |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS-----  | 3,330      |          |           |          |           |           | 546       | 2,784             |  |         |       |  |
| 2817 BENZENE AND TOLUENE-----           | 20,449     |          |           |          |           |           | 1,339     | 19,110            |  |         |       |  |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 5          | 5        |           |          |           |           |           |                   |  |         |       |  |
| 2891 PAINTS-----                        | 14         | 14       |           |          |           |           |           |                   |  |         |       |  |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 114,600    | 114,600  |           |          |           |           |           |                   |  |         |       |  |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 187,385    |          |           | 187,385  |           |           |           |                   |  |         |       |  |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 59         | 59       |           |          |           |           |           |                   |  |         |       |  |
| 2911 GASOLINE-----                      | 32,619     |          |           |          |           |           | 8,772     | 23,847            |  |         |       |  |
| 2914 DISTILLATE FUEL OIL-----           | 23,094     |          |           |          |           |           |           | 23,094            |  |         |       |  |
| 2915 RESIDUAL FUEL OIL-----             | 455,873    |          |           |          |           | 12,491    | 2,694     | 426,936           |  | 13,752  |       |  |
| 2916 LUBRICATING OILS AND GREASES-----  | 38,052     |          |           |          | 38,052    |           |           |                   |  |         |       |  |
| 2917 NAPHTHA. PETROLEUM SOLVENTS-----   | 1,495      |          |           |          |           |           | 1,495     |                   |  |         |       |  |
| 2918 ASPHALT, TAR, AND BITUMENS-----    | 24,247     |          |           |          |           |           |           | 24,247            |  |         |       |  |
| 2920 COKE, PETROLEUM COKE-----          | 156,601    |          | 26,364    |          | 66,771    |           | 61,466    |                   |  |         |       |  |
| 3111 LEATHER AND LEATHER PRODUCTS-----  | 1          | 1        |           |          |           |           |           |                   |  |         |       |  |
| 3211 GLASS AND GLASS PRODUCTS-----      | 27         | 27       |           |          |           |           |           |                   |  |         |       |  |
| 3241 BUILDING CEMENT-----               | 118,705    |          |           |          |           |           | 118,705   |                   |  |         |       |  |
| 3291 STRUCTURAL CLAY PRODUCTS-----      | 20         | 20       |           |          |           |           |           |                   |  |         |       |  |
| 3281 CUT STONE AND STONE PRODUCTS-----  | 62         | 62       |           |          |           |           |           |                   |  |         |       |  |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 11         | 11       |           |          |           |           |           |                   |  |         |       |  |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 55,443     | 504      | 54,939    |          |           |           |           |                   |  |         |       |  |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 81,393     | 74,738   | 6,655     |          |           |           |           |                   |  |         |       |  |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 749        | 749      |           |          |           |           |           |                   |  |         |       |  |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 758        | 758      |           |          |           |           |           |                   |  |         |       |  |
| 3318 FERROALLOYS-----                   | 34,541     | 20,603   |           | 13,938   |           |           |           |                   |  |         |       |  |



## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

## SANDUSKY HARBOR, OHIO

SECTION INCLUDED: SOUTHEASTERLY PORTION OF SANDUSKY BAY TO AND INCLUDING PASSENGER DOCKS ON CEDAR POINT. CONTROLLING DEPTH: MOSELY CHANNEL, 26 FEET; BAY CHANNEL AND STRAIGHT CHANNEL FROM MOSELY CHANNEL TO JUNCTION WITH BAY CHANNEL, 25 FEET; TURNING BASIN, 24 FEET; DOCK CHANNEL, 22 FEET; STRAIGHT CHANNEL FROM DOCK CHANNEL TO JUNCTION WITH BAY CHANNEL, 21 FEET. PROJECT DEPTHS: MOSELY CHANNEL, 26 FEET; BAY CHANNEL AND STRAIGHT CHANNEL FROM MOSELY CHANNEL TO JUNCTION WITH BAY CHANNEL, 25 FEET; TURNING BASIN, 24 FEET; DOCK CHANNEL, 22 FEET; AND STRAIGHT CHANNEL FROM DOCK CHANNEL TO JUNCTION WITH BAY CHANNEL, 21 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | PASSENGERS | YEAR      | TONS      | PASSENGERS |
|-----------|-----------|------------|-----------|-----------|------------|
| 1971----- | 4,883,103 | 215,539    | 1976----- | 5,378,083 | 378,498    |
| 1972----- | 5,612,730 | 237,417    | 1977----- | 4,314,377 | 186,301    |
| 1973----- | 4,913,719 | 208,297    | 1978----- | 3,859,748 | 178,992    |
| 1974----- | 4,220,604 | 214,839    | 1979----- | 5,972,652 | 173,153    |
| 1975----- | 4,932,900 | 187,197    | 1980----- | 6,412,386 | 169,541    |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL     | FOREIGN  |           | DOMESTIC |           | LOCAL  |
|---|-----------|----------|-----------|----------|-----------|--------|
|   |           | CANADIAN |           | LAKEWISE |           |        |
|   |           | IMPORTS  | EXPORTS   | RECEIPTS | SHIPMENTS |        |
| TOTAL-----                              | 6,412,386 | 42,460   | 3,536,908 | 105,152  | 2,686,929 | 41,337 |
| 0131 FRESH FRUITS AND TREE NUTS-----    | 763       |          |           | 763      |           |        |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 2,151     |          |           |          |           | 2,151  |
| 1121 COAL AND LIGNITE-----              | 6,204,057 |          | 3,520,853 |          | 2,683,204 |        |
| 1411 LIMESTONE-----                     | 16,055    |          | 16,055    |          |           |        |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 46,499    | 7,125    |           |          | 188       | 39,186 |
| 1494 GYPSUM, CRUDE AND PLASTERS-----    | 75,447    |          |           | 75,447   |           |        |
| 1499 NONMETALLIC MINERALS, NEC-----     | 28,711    |          |           | 28,711   |           |        |
| 2094 GROCERIES-----                     | 240       |          |           |          | 240       |        |
| 2095 ICE-----                           | 58        |          |           |          | 58        |        |
| 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 298       |          |           |          | 298       |        |
| 2511 FURNITURE AND FIXTURES-----        | 74        |          |           | 3        | 71        |        |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 21        |          |           |          | 21        |        |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 35,324    | 35,324   |           |          |           |        |
| 2879 FERTILIZER AND MATERIALS, NEC----- | 40        |          |           |          | 40        |        |
| 2911 GASOLINE-----                      | 611       |          |           |          | 611       |        |
| 2914 DISTILLATE FUEL OIL-----           | 590       |          |           |          | 590       |        |
| 2918 ASPHALT, TAR, AND PITCHES-----     | 185       |          |           |          | 185       |        |
| 2921 LIQUEFIED GASES-----               | 76        |          |           |          | 76        |        |
| 3411 FABRICATED METAL PRODUCTS-----     | 44        |          |           |          | 44        |        |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 421       | 10       |           | 150      | 261       |        |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 50        |          |           | 50       |           |        |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 1         | 1        |           |          |           |        |
| 4112 COMMODITIES, NEC-----              | 710       |          |           | 28       | 682       |        |

## MURDOX HARBOR, OHIO

SECTION INCLUDED: LAKE APPROACH CHANNEL FROM DEEP WATER TO A POINT OPPOSITE THE OUTER END OF EAST BREAKWATER; ENTRANCE CHANNEL FROM ITS JUNCTION WITH THE APPROACH CHANNEL TO ITS JUNCTION WITH THE RIVER CHANNEL; RIVER CHANNEL AND TURNING BASIN TO WITHIN 1,500 FEET OF THE PENN CENTRAL RAILROAD BRIDGE. CONTROLLING DEPTH: LAKE APPROACH, ENTRANCE AND RIVER CHANNELS, 25 FEET; TURNING BASIN, 19 FEET. PROJECT DEPTHS: LAKE APPROACH AND ENTRANCE CHANNELS, 29 FEET; RIVER CHANNEL, 28 FEET; TURNING BASIN, 22 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS      |
|-----------|-----------|-----------|-----------|
| 1971----- | 3,332,827 | 1976----- | 2,855,701 |
| 1972----- | 3,380,742 | 1977----- | 1,933,192 |
| 1973----- | 3,655,463 | 1978----- | 2,429,342 |
| 1974----- | 3,325,132 | 1979----- | 3,457,764 |
| 1975----- | 2,115,680 | 1980----- | 2,129,061 |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                              | TOTAL     | FOREIGN  |          | DOMESTIC |           |           |       |
|--|-----------|----------|----------|----------|-----------|-----------|-------|
|  |           | OVERSEAS | CANADIAN |          | LAKEWISE  |           | LOCAL |
|  |           | EXPORTS  | IMPORTS  | EXPORTS  | RECEIPTS  | SHIPMENTS |       |
| TOTAL-----                             | 2,129,061 | 87,265   | 28 '96   | 342,636  | 1,653,931 | 16,261    | 172   |
| 0103 CORN-----                         | 293,881   | 68,725   | -----    | 225,156  | -----     | -----     | ----- |
| 0107 WHEAT-----                        | 34,990    | -----    | -----    | 18,329   | -----     | 16,261    | ----- |
| 0111 SOYBEANS-----                     | 117,691   | 18,540   | -----    | 99,151   | -----     | -----     | ----- |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 172       | -----    | -----    | -----    | -----     | -----     | 172   |
| 1011 IRON ORE AND CONCENTRATES-----    | 1,237,493 | -----    | 28,796   | -----    | 1,208,657 | -----     | ----- |
| 1411 LIMESTONE-----                    | 445,274   | -----    | -----    | -----    | 445,274   | -----     | ----- |

LORAIN HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR AND BLACK RIVER FROM MOUTH TO AND INCLUDING UNITED STATES STEEL CORP.; NATIONAL TUBE DIVISION DOCK, 3 MILES. CONTROLLING DEPTHS: LAKE APPROACH CHANNEL, 29 FEET; A CHANNEL 800 FEET WIDE THROUGH THE OUTER HARBOR, 28 FEET; REMAINDER OF OUTER HARBOR, 24 FEET; LOWER 2,200 FEET OF RIVER CHANNEL, 28 FEET; REMAINDER OF RIVER CHANNEL 27 FEET EXCEPT TURNING BASIN JUST DOWNSTREAM OF THE 21ST STREET BRIDGE WHICH IS 20 FEET AND THE TURNING BASIN OPPOSITE THE U. S. STEEL CORP.; NATIONAL TUBE DIVISION WHICH IS 21 FEET. PROJECT DEPTHS: LAKE APPROACH CHANNEL, 29 FEET; A CHANNEL 800 FEET WIDE THROUGH THE OUTER HARBOR, 28 FEET; REMAINDER OF OUTER HARBOR, 25 FEET; LOWER 2,200 FEET OF RIVER CHANNEL, 28 FEET; REMAINDER OF RIVER CHANNEL, 27 FEET; EXCEPT TURNING BASIN DOWNSTREAM OF 21ST STREET BRIDGE, 20 FEET AND TURNING BASIN OPPOSITE U. S. STEEL CORP., NATIONAL TUBE DIVISION DOCK, 21 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS       | YEAR | TONS      |
|------|------------|------|-----------|
| 1971 | 7,483,789  | 1976 | 7,439,113 |
| 1972 | 10,173,023 | 1977 | 6,286,913 |
| 1973 | 11,584,368 | 1978 | 6,236,264 |
| 1974 | 9,076,890  | 1979 | 6,633,811 |
| 1975 | 7,690,341  | 1980 | 6,191,368 |

FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                              | TOTAL     | FOREIGN  |          |         | DOMESTIC  |          | LOCAL   |
|--|-----------|----------|----------|---------|-----------|----------|---------|
|  |           | OVERSEAS | CANADIAN |         | LAKEWIDE  |          |         |
|  |           |          | EXPORTS  | IMPORTS | EXPORTS   | RECEIPTS |         |
| TOTAL-----                             | 8,191,368 | 114      | 56,089   | 72,923  | 7,541,802 | 314,380  | 166,060 |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 167       |          |          |         |           |          | 167     |
| 1011 IRON ORE AND CONCENTRATES-----    | 6,623,026 |          |          |         | 6,318,646 | 304,380  |         |
| 1411 LIMESTONE-----                    | 1,034,049 |          |          |         | 1,034,049 |          |         |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----   | 221,956   |          | 56,083   |         |           |          | 165,873 |
| 1494 GYPSUM, CRUDE AND PLASTERS-----   | 146,010   |          |          |         | 146,010   |          |         |
| 2011 GASOLINE-----                     | 4,825     |          |          |         | 4,825     |          |         |
| 2014 DISTILLATE FUEL OIL-----          | 37,700    |          |          |         | 37,700    |          |         |
| 2920 COKE, PETROLEUM COKE-----         | 82,923    |          |          | 72,923  |           | 10,000   |         |
| 3201 CUT STONE AND STONE PRODUCTS----- | 26        |          | 26       |         |           |          |         |
| 3411 FABRICATED METAL PRODUCTS-----    | 572       |          |          |         | 572       |          |         |
| 3511 MACHINERY, EXCEPT ELECTRICAL----- | 114       | 114      |          |         |           |          |         |

CLEVELAND HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR, OLD RIVER AND CUYAHOGA RIVER FROM MOUTH TO AND INCLUDING UPPER REPUBLIC STEEL CORP. DOCK, IMMEDIATELY DOWNSTREAM FROM NORFOLK & WESTERN RAILWAY BRIDGE, 5.8 MILES. CONTROLLING DEPTHS: LAKE APPROACH CHANNEL, 29 FEET; ENTRANCE CHANNEL, WEST BASIN AND WESTERLY 800 FEET OF EAST BASIN, 28 FEET; EASTERLY 3800-FOOT LENGTH OF EAST BASIN, 27 FEET; 500-FOOT CHANNEL THROUGH EAST OUTER HARBOR, 25 FEET; CHANNEL BETWEEN PIERS TO CONRAIL RAILROAD BRIDGE, 27 FEET; CHANNEL IN CUYAHOGA RIVER FROM PENN CENTRAL RAILROAD TO UPPER PROJECT LIMIT, 23 FEET; TURNING BASIN UPSTREAM FROM E. I. DUPONT DE NEMOURS AND COMPANY, INC. GRASSLETT CHEMICAL DIVISION DOCK, 18 FEET; OLD RIVER TO SAND PRODUCTS CORPORATION DOCK, 19 FEET; REMAINDER OF OLD RIVER TO UPPER PROJECT LIMIT, 14 FEET. PROJECT DEPTHS: LAKE APPROACH CHANNEL, 29 FEET; WEST BASIN, ENTRANCE CHANNEL AND WEST END OF EAST BASIN, 28 FEET; REMAINDER 3800-FOOT LENGTH OF EAST BASIN, 27 FEET; 500-FOOT CHANNEL THROUGH EAST OUTER HARBOR, 25 FEET; LOWER CUYAHOGA RIVER FROM LAKEWARD END OF THE PIERS TO IMMEDIATELY ABOVE JUNCTION WITH OLD RIVER, 27 FEET; OLD RIVER TO UPPER PROJECT LIMIT, 27 FEET; REMAINDER OF CUYAHOGA RIVER, 25 FEET; TURNING BASIN UPSTREAM FROM E. I. DUPONT DE NEMOURS & CO., GRASSLETT CHEMICAL DIVISION DOCK, 18 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS       | PASSENGERS | YEAR | TONS       | PASSENGERS |
|------|------------|------------|------|------------|------------|
| 1971 | 20,551,928 | 103,278    | 1976 | 18,167,579 | 112,874    |
| 1972 | 23,865,650 | 67,771     | 1977 | 16,103,781 | 78,721     |
| 1973 | 24,828,323 | 145,157    | 1978 | 19,698,862 | 127,820    |
| 1974 | 21,933,874 | 211,102    | 1979 | 19,478,349 | 120,400    |
| 1975 | 18,145,180 | 140,231    | 1980 | 14,845,151 |            |

FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                           | TOTAL      | FOREIGN  |         |           |         | DOMESTIC  |            |           | LOCAL  |
|-------------------------------------|------------|----------|---------|-----------|---------|-----------|------------|-----------|--------|
|                                     |            | OVERSEAS |         | CANADIAN  |         | COASTWISE | LAKEWISE   |           |        |
|                                     |            | IMPORTS  | EXPORTS | IMPORTS   | EXPORTS | SHIPMENTS | RECEIPTS   | SHIPMENTS |        |
| TOTAL                               | 14,045,151 | 260,273  | 16,371  | 2,815,518 | 306,533 | 14,050    | 10,268,367 | 269,925   | 98,114 |
| 0102 BARLEY AND RYE                 | 2,280      |          |         |           |         |           | 2,280      |           |        |
| 0104 OATS                           | 4          |          | 4       |           |         |           |            |           |        |
| 0107 WHEAT                          | 85,384     |          |         |           |         |           | 85,384     |           |        |
| 0121 TOBACCO, LEAF                  | 7,392      | 960      |         | 6,432     |         |           |            |           |        |
| 0141 FRESH AND FROZEN VEGETABLES    | 7          |          | 7       |           |         |           |            |           |        |
| 0161 ANIMALS AND PRODUCTS, NEC.     | 8          | 8        |         |           |         |           |            |           |        |
| 0841 CRUDE RUBBER AND ALLIED GUMS   | 1          |          | 1       |           |         |           |            |           |        |
| 0911 FRESH FISH, EXCEPT SHELLFISH   | 129        |          |         |           |         |           |            |           | 129    |
| 1011 IRON ORE AND CONCENTRATES      | 10,040,415 |          |         | 1,840,854 |         |           | 8,199,561  |           |        |
| 1091 ALUMINUM ORES, CONCENTRATES    | 44         |          |         |           | 44      |           |            |           |        |
| 1411 LIMESTONE                      | 1,436,079  |          | 3       |           | 10,304  |           | 1,425,772  |           |        |
| 1442 SAND, GRAVEL, CRUSHED ROCK     | 1,022,528  |          | 16      | 822,536   |         |           | 149,986    |           | 94,880 |
| 1491 CLAY                           | 239        | 20       | 219     |           |         |           |            |           |        |
| 1499 NONMETALLIC MINERALS, NEC.     | 507,968    | 18,072   |         |           | 248,044 |           |            | 241,892   |        |
| 2012 MEAT AND PRODUCTS, NEC.        | 2          |          | 1       |           | 1       |           |            |           |        |
| 2014 TALLOW, ANIMAL FATS AND OILS   | 290        |          | 290     |           |         |           |            |           |        |
| 2034 VEGETABLES AND PREP, NEC.      | 49         | 28       |         |           | 21      |           |            |           |        |
| 2039 PREP FRUIT AND VEG JUICE, NEC. | 302        |          | 282     |           | 20      |           |            |           |        |
| 2049 GRAIN MILL PRODUCTS, NEC.      | 97         | 63       |         | 34        |         |           |            |           |        |
| 2081 ALCOHOLIC BEVERAGES            | 714        | 659      | 34      | 21        |         |           |            |           |        |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

CLEVELAND HARBOR, OHIO--CONTINUED

FREIGHT TRAFFIC, 1980--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL   | FOREIGN  |         |          |         | COASTWISE | DOMESTIC |           | LOCAL  |
|---|---------|----------|---------|----------|---------|-----------|----------|-----------|--------|
|   |         | OVERSEAS |         | CANADIAN |         |           | RECEIPTS | SHIPMENTS |        |
|   |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |           |          |           |        |
| 2111 TOBACCO MANUFACTURES-----          | 18      |          | 18      |          |         |           |          |           |        |
| 2211 BASIC TEXTILE PRODUCTS-----        | 15      |          | 15      |          |         |           |          |           |        |
| 2311 APPAREL-----                       | 3       |          | 3       |          |         |           |          |           |        |
| 2411 LUMBER-----                        | 41      |          | 41      |          |         |           |          |           |        |
| 2421 LUMBER-----                        | 406     |          | 388     |          | 18      |           |          |           |        |
| 2491 WOOD MANUFACTURES, NEC-----        | 600     |          | 582     | 1        | 97      |           |          |           |        |
| 2511 FURNITURE AND FIXTURES-----        | 116     | 16       | 91      |          | 9       |           |          |           |        |
| 2631 PAPER AND PAPERBOARD-----          | 27      | 8        | 19      |          |         |           |          |           |        |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 19      |          | 15      | 4        |         |           |          |           |        |
| 2711 PRINTED MATTER-----                | 28      | 1        | 26      |          |         |           |          |           |        |
| 2819 BASIC CHEMICALS AND PROD, NEC----- | 13,168  | 152      | 26      | 12,865   | 125     |           |          |           |        |
| 2821 PLASTIC MATERIALS-----             | 532     | 25       | 424     |          | 83      |           |          |           |        |
| 2822 SYNTHETIC RUBBER-----              | 421     |          | 421     |          |         |           |          |           |        |
| 2831 DRUGS-----                         | 3       |          | 3       |          |         |           |          |           |        |
| 2841 SOAP-----                          | 60      |          | 40      |          | 20      |           |          |           |        |
| 2891 PAINTS-----                        | 420     | 100      | 258     | 62       |         |           |          |           |        |
| 2871 NITROGENOUS CHEM FERTILIZERS-----  | 20      | 20       |         |          |         |           |          |           |        |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 40,179  |          |         | 40,179   |         |           |          |           |        |
| 2891 MISCELLANEOUS CHEMICAL PROD-----   | 578     | 48       | 527     |          | 3       |           |          |           |        |
| 2914 DISTILLATE FUEL OIL-----           | 5,589   |          |         |          |         |           | 3,941    | 1,448     |        |
| 2915 RESIDUAL FUEL OIL-----             | 228,937 |          |         |          |         | 14,050    | 149,607  | 21,775    | 43,105 |
| 2916 LUBRICATING OILS AND GREASES-----  | 35      |          | 35      |          |         |           |          |           |        |
| 2918 ASPHALT, TAR, AND PITCHES-----     | 29,463  |          | 8       |          |         |           | 29,455   |           |        |
| 2920 COKE, PETROLEUM COKE-----          | 45,980  |          |         |          | 45,980  |           |          |           |        |
| 2991 PETROLEUM AND COAL PROD, NEC-----  | 1       |          | 1       |          |         |           |          |           |        |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 777     | 102      | 485     | 44       | 146     |           |          |           |        |
| 3211 GLASS AND GLASS PRODUCTS-----      | 283     | 67       | 161     | 19       | 16      |           |          |           |        |
| 3241 BUILDING CEMENT-----               | 266,999 |          | 20      | 39,708   |         |           | 227,271  |           |        |
| 3291 STRUCTURAL CLAY PRODUCTS-----      | 295     | 67       | 218     |          | 10      |           |          |           |        |
| 3281 CUT STONE AND STONE PRODUCTS-----  | 61      |          | 61      |          |         |           |          |           |        |
| 3291 MISC NONMETALLIC MINERAL PROD----- | 420     | 12       | 386     | 37       | 5       |           |          |           |        |
| 3314 IRON AND STEEL PRIMARY FORMS-----  | 3,612   | 2,560    | 384     | 533      | 125     |           |          |           |        |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 222,844 | 222,570  | 197     |          | 77      |           |          |           |        |
| 3316 IRON AND STEEL PLATES, SHEETS----- | 880     | 526      | 336     |          | 16      |           |          |           |        |
| 3317 IRON AND STEEL PIPE AND TUBE-----  | 2,818   | 423      | 1,069   | 267      | 209     |           |          | 898       |        |
| 3318 FERROALLOYS-----                   | 20,821  |          |         | 20,000   |         |           |          |           |        |
| 3319 IRON AND STEEL PRODUCTS, NEC-----  | 1,181   | 480      | 517     |          | 184     |           |          |           |        |
| 3321 NONFERROUS METALS, NEC-----        | 241     | 25       | 3       | 213      |         |           |          |           |        |
| 3322 COPPER ALLOYS, UNWORKED-----       | 14      |          | 12      |          | 2       |           |          |           |        |
| 3323 LEAD AND ZINC, UNWORKED-----       | 5,905   | 5,887    | 18      |          |         |           |          |           |        |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 879     |          | 832     |          | 47      |           |          |           |        |
| 3411 FABRICATED METAL PRODUCTS-----     | 2,229   | 350      | 942     | 732      | 205     |           |          |           |        |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 8,411   | 3,737    | 2,853   | 1,375    | 446     |           |          |           |        |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 1,479   | 278      | 1,026   | 1        | 174     |           |          |           |        |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 4,147   | 596      | 3,086   | 369      | 76      |           |          |           |        |
| 3731 SHIPS AND BOATS-----               | 4       |          | 4       |          |         |           |          |           |        |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 7       |          | 7       |          |         |           |          |           |        |
| 3811 INSTR, TIME, PHOTO, OPT GOODS----- | 32      | 12       | 17      | 2        | 1       |           |          |           |        |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 57      | 5        | 29      |          | 19      |           |          |           |        |
| 4011 IRON AND STEEL SCRAP-----          | 29,157  | 44       |         | 29,113   |         |           |          |           |        |
| 4012 NONFERROUS METAL SCRAP-----        | 29      |          | 26      |          | 3       |           |          |           |        |
| 4112 COMMODITIES, NEC-----              | 2,378   | 2,331    | 15      | 32       |         |           |          |           |        |

FAIRPORT HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR AND GRAND RIVER FROM MOUTH TO AND INCLUDING DIAMOND ALKALI CO. STONE DOCK, 1.5 MILES. CONTROLLING DEPTH: OUTER HARBOR, 25 FEET; THENCE 3,500 FEET UPSTREAM FROM MOUTH OF RIVER, 24 FEET; THENCE 4,000 FEET UPSTREAM, 21 FEET, EXCEPT FOR 1,000 FEET OF THE UPSTREAM END OF THE WEST SIDE OF THE CHANNEL, 5 FEET; TURNING BASIN, 18 FEET. PROJECT DEPTH: ENTRANCE CHANNEL, 20 FEET; OUTER HARBOR, 28 FEET IN A CHANNEL GENERALLY 800 FEET WIDE FROM THE ENTRANCE CHANNEL TO THE MOUTH OF GRAND RIVER; REMAINDER OF OUTER HARBOR, 25 FEET; GRAND RIVER, 27 FEET EXCEPT FOR 1,000 FEET OF THE UPSTREAM END OF THE WEST SIDE OF THE CHANNEL, 8 FEET; TURNING BASIN, 21 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | YEAR      | TONS      |
|-----------|-----------|-----------|-----------|
| 1971----- | 2,679,385 | 1976----- | 2,677,023 |
| 1972----- | 2,913,317 | 1977----- | 2,199,262 |
| 1973----- | 3,681,272 | 1978----- | 2,598,469 |
| 1974----- | 2,937,601 | 1979----- | 2,391,680 |
| 1975----- | 3,020,122 | 1980----- | 1,906,627 |

FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                              | TOTAL     | FOREIGN  |         | DOMESTIC  |           | LOCAL   |
|--|-----------|----------|---------|-----------|-----------|---------|
|  |           | CANADIAN |         | LAKEWISSE |           |         |
|  |           | IMPORTS  | EXPORTS | RECEIPTS  | SHIPMENTS |         |
| TOTAL-----                             | 1,906,627 | 199,130  | 320,853 | 1,113,796 | 197,706   | 119,942 |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 81        |          |         |           |           | 81      |
| 1411 LIMESTONE-----                    | 1,113,796 |          |         | 1,113,796 |           |         |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----   | 324,643   | 199,130  | 9,652   |           |           | 115,861 |
| 1499 NONMETALLIC MINERALS, NEC-----    | 468,187   |          | 318,402 |           | 197,706   |         |

# BUFFALO, N. Y., DISTRICT

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## ASHTABULA HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR AND ASHTABULA RIVER FROM MOUTH TO AND INCLUDING CITY OF ASHTABULA DOCK (FORMER GREAT LAKES ENGINEERING WORKS DOCK), 1.75 MILES. CONTROLLING DEPTH: THE HARBOR SHOREWARD OF THE INNER BREAKWATER, THE APPROACH TO THE PENN. CENTRAL RAILROAD COMPANY'S SLIP AND THE LOWER 2,000 FEET OF THE ASHTABULA RIVER, 27 FEET; THENCE TO CAR FERRY SLIP, 10 FEET; THENCE TO A POINT 1,550 FEET UPSTREAM FROM TURNING BASIN AND INCLUDING TURNING BASIN, 3 FEET. PROJECT DEPTH: ENTRANCE CHANNEL, 29 FEET; WESTERLY PORTION OF OUTER HARBOR TO INNER BREAKWATER, 28 FEET; APPROACH CHANNEL TO DOCKS EAST OF INNER BREAKWATER, 28 FEET; TURNING BASIN IN THE EASTERLY PORTION OF THE OUTER HARBOR, 22 FEET; CHANNEL FROM INSIDE THE INNER BREAKWATER TO MOUTH OF RIVER AND 2,000 FEET UPSTREAM AND APPROACH CHANNEL TO PENN. CENTRAL RAILROAD SLIP, 27 FEET; THENCE TO CAR FERRY SLIP, 10 FEET; THENCE TO A POINT 1,550 FEET UPSTREAM FROM TURNING BASIN AND INCLUDING TURNING BASIN, 16 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS       | YEAR      | TONS       |
|-----------|------------|-----------|------------|
| 1971----- | 11,281,010 | 1976----- | 11,700,411 |
| 1972----- | 12,063,064 | 1977----- | 11,632,975 |
| 1973----- | 10,872,484 | 1978----- | 12,830,261 |
| 1974----- | 10,852,239 | 1979----- | 14,602,645 |
| 1975----- | 6,738,094  | 1980----- | 10,074,956 |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL      | FOREIGN  |           |           | DOMESTIC  |           | LOCAL |
|---|------------|----------|-----------|-----------|-----------|-----------|-------|
|   |            | OVERSEAS | CANADIAN  |           | LAKEWISE  |           |       |
|   |            | IMPORTS  | IMPORTS   | EXPORTS   | RECEIPTS  | SHIPMENTS |       |
| TOTAL-----                              | 10,074,956 | 155,274  | 1,442,211 | 4,296,692 | 3,116,895 | 1,063,841 | 83    |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 83         |          |           |           |           |           | 83    |
| 1011 IRON ORE AND CONCENTRATES-----     | 4,016,993  |          | 1,262,847 |           | 2,754,144 |           |       |
| 1091 ALUMINUM ORES, CONCENTRATES-----   | 17,858     |          |           |           |           |           |       |
| 1091 NONFERROUS ORES, CONCENT, NEC----- | 72,183     |          | 5,620     |           |           |           |       |
| 1121 COAL AND LIGNITE-----              | 5,311,476  |          |           | 4,230,741 | 8,694     | 1,063,841 |       |
| 1411 LIMESTONE-----                     | 353,857    |          |           |           | 353,857   |           |       |
| 1402 SAND, GRAVEL, CRUSHED ROCK-----    | 14,591     |          | 14,591    |           |           |           |       |
| 1491 CLAY-----                          | 15,492     |          | 15,492    |           |           |           |       |
| 1499 NONMETALLIC MINERALS, NEC-----     | 64,682     |          | 6,691     | 57,911    |           |           |       |
| 2421 LUMBER-----                        | 11         |          | 11        |           |           |           |       |
| 2431 VENEER, PLYWOOD, WORKED WOOD-----  | 6,962      |          | 6,962     |           |           |           |       |
| 2631 PAPER AND PAPERBOARD-----          | 10,363     |          | 10,363    |           |           |           |       |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 65,928     |          | 65,928    |           |           |           |       |
| 3241 BUILDING CEMENT-----               | 48,042     |          | 48,042    |           |           |           |       |
| 3315 IRON, STEEL SHAPES, EXC SHEET----- | 5,028      |          | 5,028     |           |           |           |       |
| 3318 FERROALLOYS-----                   | 15,632     |          | 15,632    |           |           |           |       |
| 4012 NONFERROUS METAL SCRAP-----        | 55,857     |          | 5,924     |           |           |           |       |

## CONNEAUT HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR AND CONNEAUT RIVER 2,450 FEET UPSTREAM OF THE OUTER END OF THE WEST PIER, CONTROLLING DEPTH: WESTERLY PORTION OF OUTER HARBOR, 22 FEET; ACCESS CHANNEL TO CITY DOCK, 2 FEET; EASTERLY PORTION OF OUTER HARBOR 28 FEET. PROJECT DEPTH: EASTERLY PORTION OF OUTER HARBOR, 28 FEET; WESTERLY PORTION OF OUTER HARBOR, 22 FEET; ACCESS CHANNEL TO CITY DOCK, 6 FEET; INNER HARBOR, 27 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS       | YEAR      | TONS       |
|-----------|------------|-----------|------------|
| 1971----- | 15,891,002 | 1976----- | 16,464,534 |
| 1972----- | 14,683,654 | 1977----- | 15,146,627 |
| 1973----- | 16,731,912 | 1978----- | 17,427,794 |
| 1974----- | 16,966,435 | 1979----- | 21,478,061 |
| 1975----- | 19,192,311 | 1980----- | 10,654,609 |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                              | TOTAL      | FOREIGN   |           | DOMESTIC  |           | LOCAL |
|--|------------|-----------|-----------|-----------|-----------|-------|
|  |            | CANADIAN  |           | LAKEWISE  |           |       |
|  |            | IMPORTS   | EXPORTS   | RECEIPTS  | SHIPMENTS |       |
| TOTAL-----                             | 10,654,609 | 1,346,770 | 9,738,696 | 9,249,787 | 8,317,190 | 190   |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 190        | -----     | -----     | -----     | -----     | 190   |
| 1011 IRON ORE AND CONCENTRATES-----    | 9,264,001  | 1,346,592 | -----     | 7,935,409 | -----     | ----- |
| 1121 COAL AND LIGNITE-----             | 8,034,801  | -----     | 9,717,643 | -----     | 2,317,190 | ----- |
| 1411 LIMESTONE-----                    | 1,314,378  | -----     | -----     | 1,314,378 | -----     | ----- |
| 1499 NONMETALLIC MINERALS, NEC-----    | 186        | 186       | -----     | -----     | -----     | ----- |
| 2920 COKE, PETROLEUM COKE-----         | 21,053     | -----     | 21,053    | -----     | -----     | ----- |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

## ERIE HARBOR, PA.

SECTION INCLUDED: SOUTHERLY SIDE OF ERIE HARBOR AND LAKE ERIE WATER FRONTAGE FROM HARBOR ENTRANCE EASTWARD TO AND INCLUDING SUN OIL CO. DOCK, 3.5 MILES. CONTROLLING DEPTH: ENTRANCE CHANNEL, 27 FEET; CHANNEL TO EASTERLY COAL AND ORE DOCKS, 27 FEET; AND 27 FEET TO THE PORT AUTHORITY DOCK; HARBOR BASIN, 21 FEET; WESTERLY PORTION OF HARBOR, 16 FEET, PROJECT DEPTH: ENTRANCE CHANNEL, 29 FEET; APPROACH CHANNEL TO EASTERLY COAL AND ORE DOCKS, 28 FEET; APPROACH TO PORT AUTHORITY DOCKS, 27 FEET; HARBOR BASIN, 21 FEET; WESTERLY PORTION OF HARBOR BASIN, 18 FEET. THE APPROACH CHANNEL FROM THE 88 FOOT CHANNEL TO AND INCLUDING TURNING BASIN AT WESTERLY DOCKS HAS BEEN AUTHORIZED, BUT NEVER COMPLETED AND CONSIDERED INACTIVE AT THE PRESENT TIME.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS      | PASSENGERS | YEAR      | TONS      | PASSENGERS |
|-----------|-----------|------------|-----------|-----------|------------|
| 1971----- | 1,249,218 | 22,725     | 1976----- | 1,157,637 | -----      |
| 1972----- | 1,360,244 | 16,765     | 1977----- | 954,672   | -----      |
| 1973----- | 1,283,342 | 14,496     | 1978----- | 1,129,985 | 67,200     |
| 1974----- | 903,187   | 9,208      | 1979----- | 833,707   | 27,360     |
| 1975----- | 1,218,193 | 9,735      | 1980----- | 988,075   | 24,888     |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL   | FOREIGN  |         |          |         | DOMESTIC  |           | LOCAL   |
|---|---------|----------|---------|----------|---------|-----------|-----------|---------|
|   |         | OVERSEAS |         | CANADIAN |         | LAKEWISSE |           |         |
|   |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS | RECEIPTS  | SHIPMENTS |         |
| TOTAL-----                              | 988,075 | 24,980   | 36,714  | 83,950   | 111     | 289,203   | 9,317     | 147,800 |
| 0141 FRESH AND FROZEN VEGETABLES-----   | 1,061   | -----    | 1,061   | -----    | -----   | -----     | -----     | -----   |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 120     | -----    | -----   | -----    | -----   | -----     | -----     | 120     |
| 1121 COAL AND LIGNITE-----              | 5,317   | -----    | -----   | -----    | -----   | -----     | 9,317     | -----   |
| 1411 LIMESTONE-----                     | 150,446 | -----    | -----   | -----    | -----   | 150,446   | -----     | -----   |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 230,688 | -----    | -----   | 77,091   | -----   | 5,917     | -----     | 147,680 |
| 1499 NONMETALLIC MINERALS, NEC-----     | 40,284  | -----    | -----   | 981      | -----   | 39,303    | -----     | -----   |
| 2042 PREPARED ANIMAL FEEDS-----         | 346     | -----    | 346     | -----    | -----   | -----     | -----     | -----   |
| 2211 BASIC TEXTILE PRODUCTS-----        | 1       | 1        | -----   | -----    | -----   | -----     | -----     | -----   |
| 2411 LOGS-----                          | 5,472   | -----    | 5,472   | -----    | -----   | -----     | -----     | -----   |
| 2421 LUMBER-----                        | 955     | -----    | 955     | -----    | -----   | -----     | -----     | -----   |
| 2491 WOOD MANUFACTURES, NEC-----        | 8       | -----    | -----   | -----    | 8       | -----     | -----     | -----   |
| 2631 PAPER AND PAPERBOARD-----          | 474     | 474      | -----   | -----    | -----   | -----     | -----     | -----   |
| 2691 PULP AND PAPER PRODUCTS, NEC-----  | 48      | -----    | 48      | -----    | -----   | -----     | -----     | -----   |
| 2831 DRUGS-----                         | 2       | 2        | -----   | -----    | -----   | -----     | -----     | -----   |
| 2891 PAINTS-----                        | 18      | 18       | -----   | -----    | -----   | -----     | -----     | -----   |
| 2911 GASOLINE-----                      | 13,537  | -----    | -----   | -----    | -----   | 13,537    | -----     | -----   |
| 3291 STRUCTURAL CLAY PRODUCTS-----      | 19      | 19       | -----   | -----    | -----   | -----     | -----     | -----   |
| 3281 CUT STONE AND STONE PRODUCTS-----  | 64      | 64       | -----   | -----    | -----   | -----     | -----     | -----   |
| 3310 FERROALLOYS-----                   | 30,240  | 24,362   | -----   | 5,878    | -----   | -----     | -----     | -----   |
| 3321 NONFERROUS METALS, NEC-----        | 13      | -----    | -----   | -----    | 13      | -----     | -----     | -----   |
| 3411 FABRICATED METAL PRODUCTS-----     | 226     | 39       | 187     | -----    | -----   | -----     | -----     | -----   |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 1,386   | -----    | 1,386   | -----    | -----   | -----     | -----     | -----   |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 381     | -----    | 374     | -----    | 7       | -----     | -----     | -----   |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 30      | -----    | 30      | -----    | -----   | -----     | -----     | -----   |
| 3731 SHIPS AND BOATS-----               | 1       | -----    | 1       | -----    | -----   | -----     | -----     | -----   |
| 3791 MISC TRANSPORTATION EQUIPMENT----- | 1,867   | -----    | 1,867   | -----    | -----   | -----     | -----     | -----   |
| 4011 IRON AND STEEL SCRAP-----          | 24,987  | -----    | 24,987  | -----    | -----   | -----     | -----     | -----   |
| 4112 COMMODITIES, NEC-----              | 84      | 1        | -----   | -----    | 83      | -----     | -----     | -----   |

## BUFFALO HARBOR, N. Y. (INCLUDED IN PORT OF BUFFALO)

SECTION INCLUDED: OUTER HARBOR, LACKAWANNA CANAL, UNION CANAL, BUFFALO RIVER FROM MOUTH TO CONRAIL RY BRIDGE, 5.5 MILES, BUFFALO SHIP CANAL, AND BLACK ROCK LOCK CANAL TO THE BLACK ROCK LOCK, CONTROLLING DEPTH: SOUTH ENTRANCE CHANNEL, 28 FEET; SOUTH OUTER HARBOR, 26 FEET; THENCE 26 FEET TO NIAGARA FRONTIER PORT TERMINAL, AND 22 FEET IN THE REMAINDER OF THE OUTER HARBOR TO THE NORTH; NEW NORTH ENTRANCE CHANNEL, 25 FEET, AND BLACK ROCK CANAL, 21 FEET; BUFFALO RIVER ENTRANCE, BUFFALO RIVER, AND BUFFALO SHIP CANAL, 21 FEET, PROJECT DEPTH: SOUTH ENTRANCE CHANNEL, 29 FEET; SOUTH OUTER HARBOR, 30 FEET; MIDDLE SECTION OUTER HARBOR, 27 FEET; NORTH OUTER HARBOR, 23 FEET; NORTH ENTRANCE CHANNEL, 25 FEET; BUFFALO RIVER ENTRANCE, BUFFALO RIVER, AND BUFFALO SHIP CANAL, 28 FEET; BLACK ROCK CANAL, 21 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS       | PASSENGERS | YEAR      | TONS       | PASSENGERS |
|-----------|------------|------------|-----------|------------|------------|
| 1971----- | 10,137,206 | 19,617     | 1976----- | 11,481,716 | 24         |
| 1972----- | 8,448,185  | -----      | 1977----- | 7,975,244  | -----      |
| 1973----- | 12,603,820 | -----      | 1978----- | 9,134,753  | -----      |
| 1974----- | 9,576,553  | 2          | 1979----- | 8,315,880  | -----      |
| 1975----- | 7,018,748  | -----      | 1980----- | 5,678,309  | -----      |

## FREIGHT TRAFFIC, 1980

FOREIGN

(SHORT TONS)

| COMMODITY                              | TOTAL   | OVERSEAS |         | CANADIAN |         |
|--|---------|----------|---------|----------|---------|
|  |         | IMPORTS  |         | EXPORTS  |         |
|  |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |
| TOTAL-----                             | 774,202 | 14,492   | 32,638  | 722,557  | 4,555   |
| 0191 MISCELLANEOUS FARM PRODUCTS-----  | 1       | 1        | -----   | -----    | -----   |
| 1011 IRON ORE AND CONCENTRATES-----    | 563,607 | -----    | -----   | 563,607  | -----   |
| 1491 CLAY-----                         | 8,338   | 8,338    | -----   | -----    | -----   |
| 1499 NONMETALLIC MINERALS, NEC-----    | 21,892  | 18       | -----   | 21,874   | -----   |
| 2011 MEAT, FRESH, CHILLED, FROZEN----- | 17      | 17       | -----   | -----    | -----   |
| 2014 TALLOW, ANIMAL FATS AND OILS----- | 3,307   | -----    | 3,307   | -----    | -----   |

**BUFFALO, N. Y., DISTRICT**

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BUFFALO HARBOR, N. Y. (INCLUDED IN PORT OF BUFFALO)--CONTINUED

FREIGHT TRAFFIC, 1988--CONTINUED

FOREIGN--CONTINUED

(SHORT TONS)

| COMMODITY                               | TOTAL   | OVERSEAS |         | CANADIAN |         |
|---|---------|----------|---------|----------|---------|
|   |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |
| 2081 ALCOHOLIC BEVERAGES-----           | 1       | 1        |         |          |         |
| 2211 BASIC TEXTILE PRODUCTS-----        | 31      | 31       |         |          |         |
| 2421 LUMBER-----                        | 20      |          | 20      |          |         |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 12,078  |          |         | 12,078   |         |
| 2918 ASPHALT, TAR, AND PITCHES-----     | 4,546   |          |         |          | 4,546   |
| 3011 RUBBER AND MISC PLASTIC PROD-----  | 7       | 7        |         |          |         |
| 3241 BUILDING CEMENT-----               | 124,976 |          |         | 124,976  |         |
| 3318 FERROALLOYS-----                   | 5,987   | 5,987    |         |          |         |
| 3411 FABRICATED METAL PRODUCTS-----     | 18      |          | 9       |          | 9       |
| 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 338     |          | 306     |          | 2       |
| 3611 ELECTRICAL MACH AND EQUIP-----     | 3       |          | 3       |          |         |
| 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 161     |          | 161     |          |         |
| 3811 INSTR. TIME, PHOTO, OPT GOODS----- | 9       |          |         |          | 9       |
| 3911 MISC MANUFACTURED PRODUCTS-----    | 25      | 22       | 3       |          |         |
| 4011 IRON AND STEEL SCRAP-----          | 28,829  |          | 28,829  |          |         |
| 4112 COMMODITIES, NEC-----              | 11      |          |         | 11       |         |

DOMESTIC

(SHORT TONS)

| COMMODITY                              | TOTAL     | COASTWISE | LAKEWISE  |           | INTERNAL  | LOCAL  |
|--|-----------|-----------|-----------|-----------|-----------|--------|
|  |           | SHIPMENTS | RECEIPTS  | SHIPMENTS | SHIPMENTS |        |
| TOTAL-----                             | 4,696,107 | 15,217    | 4,511,170 | 55,995    | 36,868    | 76,857 |
| 0102 BARLEY AND RYE-----               | 85,469    |           | 85,469    |           |           |        |
| 0104 OATS-----                         | 3,004     |           | 3,004     |           |           |        |
| 0107 WHEAT-----                        | 1,360,900 |           | 1,360,900 |           |           |        |
| 0911 FRESH FISH, EXCEPT SHELLFISH----- | 1         |           |           |           |           | 11     |
| 1011 IRON ORE AND CONCENTRATES-----    | 2,034,715 |           | 2,034,715 |           |           |        |
| 1411 LIMESTONE-----                    | 478,246   |           | 478,246   |           |           |        |
| 1442 SAND, GRAVEL, CRUSHED ROCK-----   | 206,240   |           | 206,240   |           |           |        |
| 1494 GYPSUM, CRUDE AND PLASTERS-----   | 65,278    |           | 65,278    |           |           |        |
| 1499 NONMETALLIC MINERALS, NEC-----    | 58,707    |           | 58,707    |           |           |        |
| 2911 GASOLINE-----                     | 11,809    |           | 3,817     | 7,992     |           |        |
| 2914 DISTILLATE FUEL OIL-----          | 13,906    |           | 4,737     | 4,737     | 5,089     | 4,160  |
| 2915 RESIDUAL FUEL OIL-----            | 189,286   | 15,217    | 46,956    | 22,568    | 31,899    | 72,686 |
| 2918 ASPHALT, TAR, AND PITCHES-----    | 6,224     |           |           | 6,224     |           |        |
| 2920 COKE, PETROLEUM COKE-----         | 31,834    |           | 31,834    |           |           |        |
| 3241 BUILDING CEMENT-----              | 127,504   |           | 127,504   |           |           |        |
| 3311 PIG IRON-----                     | 14,474    |           |           | 14,474    |           |        |
| 3312 SLAG-----                         | 8,500     |           | 8,500     |           |           |        |

TONS, ALL TRAFFIC, 5,470,309.

NIAGARA RIVER, N. Y. (INCLUDED IN PORT OF BUFFALO)

SECTION INCLUDED: BLACK ROCK CHANNEL NORTH OF THE BLACK ROCK LOCK AND NIAGARA RIVER TO AND INCLUDING AMERICAN OIL CO. DOCK, 0.5 MILE SOUTH OF THE TONAWANDA CITY LINE, THE NORTHERN LIMIT OF THE NIAGARA RIVER SECTION OF THE PORT OF BUFFALO, CONTROLLING AND PROJECT DEPTHS: 21 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | YEAR      | TONS    |
|-----------|---------|-----------|---------|
| 1971----- | 971,961 | 1976----- | 827,653 |
| 1972----- | 839,974 | 1977----- | 760,821 |
| 1973----- | 635,314 | 1978----- | 889,964 |
| 1974----- | 904,378 | 1979----- | 559,884 |
| 1975----- | 627,816 | 1980----- | 563,579 |

FREIGHT TRAFFIC, 1980

DOMESTIC

(SHORT TONS)

| COMMODITY                              | TOTAL   | LAKEWISE |           | INTERNAL  | LOCAL  |
|--|---------|----------|-----------|-----------|--------|
|  |         | RECEIPTS | SHIPMENTS | SHIPMENTS |        |
| TOTAL-----                             | 563,579 | 266,001  | 243,916   | 6,095     | 47,667 |
| 1121 COAL AND LIGNITE-----             | 155,335 | 155,335  |           |           |        |
| 2511 CRUDE TAR, OIL, GAS PRODUCTS----- | 15,251  |          | 15,251    |           |        |
| 2817 BENZENE AND TOLUENE-----          | 18,376  |          | 18,376    |           |        |
| 2911 GASOLINE-----                     | 27,267  |          | 27,267    |           |        |
| 2912 JET FUEL-----                     | 127,503 |          | 121,448   | 6,095     |        |
| 2913 KEROSENE-----                     | 3,366   |          | 3,366     |           |        |
| 2914 DISTILLATE FUEL OIL-----          | 62,533  |          | 10,288    | 47,984    | 4,349  |
| 2915 RESIDUAL FUEL OIL-----            | 102,913 |          | 50,928    | 8,729     | 43,256 |
| 2917 NAPHTHA, PETROLEUM SOLVENTS-----  | 1,495   |          | 1,495     |           |        |
| 2918 ASPHALT, TAR, AND PITCHES-----    | 49,540  |          | 49,540    |           |        |
| TOTAL TON-MILES, 3,580,292.            |         |          |           |           |        |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

PORT OF BUFFALO, N. Y.

SECTION INCLUDED: OUTER HARBOR, LACKAWANNA CANAL, UNION CANAL, BUFFALO RIVER FROM MOUTH TO CONRAIL RY BRIDGE 5.5 MILES, BUFFALO SHIP CANAL, BLACK ROCK CANAL, BLACK ROCK LOCK, BLACK ROCK CHANNEL, NIAGARA RIVER, AND TONAWANDA TO AND INCLUDING BUFFALO OIL TERMINAL, INC. DOCK, LOCATED ABOUT 2,000 FEET NORTH OF TURNING BASIN, TONAWANDA INNER HARBOR, AND TONAWANDA CREEK CHANNEL FROM MOUTH TO MAIN STREET BRIDGE, CONTROLLING AND PROJECT DEPTHS: SEE BUFFALO HARBOR, NIAGARA RIVER AND TONAWANDA.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR | TONS       | PASSENGERS | YEAR | TONS       | PASSENGERS |
|------|------------|------------|------|------------|------------|
| 1971 | 11,067,491 | 19,617     | 1976 | 12,267,468 | 24         |
| 1972 | 9,226,253  |            | 1977 | 8,696,209  |            |
| 1973 | 13,176,388 |            | 1978 | 9,961,560  |            |
| 1974 | 10,442,084 | 2          | 1979 | 8,846,496  |            |
| 1975 | 7,614,212  |            | 1980 | 5,986,470  |            |

## FREIGHT TRAFFIC, 1980

## FOREIGN

(SHORT TONS)

| COMMODITY                          | TOTAL   | OVERSEAS |         | CANADIAN |         |
|------------------------------------|---------|----------|---------|----------|---------|
|                                    |         | IMPORTS  | EXPORTS | IMPORTS  | EXPORTS |
| TOTAL                              | 774,202 | 14,452   | 32,638  | 722,957  | 4,555   |
| 0191 MISCELLANEOUS FARM PRODUCTS   | 1       | 1        |         |          |         |
| 1011 IRON ORE AND CONCENTRATES     | 563,607 |          |         | 563,607  |         |
| 1491 CLAY                          | 8,338   | 8,338    |         |          |         |
| 1499 NONMETALLIC MINERALS, NEC     | 21,892  | 18       |         | 21,874   |         |
| 2011 MEAT, FRESH, CHILLED, FROZEN  | 17      | 17       |         |          |         |
| 2014 TALLOW, ANIMAL FATS AND OILS  | 3,307   |          | 3,307   |          |         |
| 2081 ALCOHOLIC BEVERAGES           | 1       | 1        |         |          |         |
| 2211 BASIC TEXTILE PRODUCTS        | 31      | 31       |         |          |         |
| 2421 LUMBER                        | 20      |          | 20      |          |         |
| 2873 PHOSPHATIC CHEM FERTILIZERS   | 12,078  |          |         | 12,078   |         |
| 2910 ASPHALT, TAR, AND BITUMENS    | 4,546   |          |         |          | 4,546   |
| 3011 RUBBER AND MISC PLASTIC PROD  | 7       | 7        |         |          |         |
| 3241 BUILDING CEMENT               | 124,976 |          |         | 124,976  |         |
| 3310 FERROALLOYS                   | 5,987   | 5,987    |         |          |         |
| 3411 FABRICATED METAL PRODUCTS     | 18      |          | 9       |          | 9       |
| 3911 MACHINERY, EXCEPT ELECTRICAL  | 338     | 30       | 306     | 2        |         |
| 3911 ELECTRICAL MACH AND EQUIP     | 3       |          | 3       |          |         |
| 3711 MOTOR VEHICLES, PARTS, EQUIP  | 161     |          | 161     |          |         |
| 3811 INSTR, TIME, PHOTO, OPT GOODS | 9       |          |         |          | 9       |
| 3911 MISC MANUFACTURED PRODUCTS    | 25      | 22       | 3       |          |         |
| 4011 IRON AND STEEL SCRAP          | 28,829  |          | 28,829  |          |         |
| 4112 COMMODITIES, NEC              | 11      |          |         | 11       |         |

## DOMESTIC

(SHORT TONS)

| COMMODITY                         | TOTAL     | COASTWISE | LANEWISE  |           | INTERNAL  | LOCAL  |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------|--------|
|                                   |           | SHIPMENTS | RECEIPTS  | SHIPMENTS | SHIPMENTS |        |
| TOTAL                             | 5,212,268 | 15,217    | 4,777,171 | 299,911   | 42,923    | 77,046 |
| 0102 BARLEY AND RYE               | 85,469    |           | 85,469    |           |           |        |
| 0104 OATS                         | 3,004     |           | 3,004     |           |           |        |
| 0107 WHEAT                        | 1,360,900 |           | 1,360,900 |           |           |        |
| 0911 FRESH FISH, EXCEPT SHELLFISH | 11        |           |           |           |           | 11     |
| 1011 IRON ORE AND CONCENTRATES    | 2,034,715 |           | 2,034,715 |           |           |        |
| 1121 COAL AND LIGNITE             | 155,335   |           | 155,335   |           |           |        |
| 1411 LIMESTONE                    | 478,246   |           | 478,246   |           |           |        |
| 1442 SAND, GRAVEL, CRUSHED ROCK   | 206,240   |           | 206,240   |           |           |        |
| 1494 GYPSUM, CRUDE AND PLASTERS   | 65,278    |           | 65,278    |           |           |        |
| 1499 NONMETALLIC MINERALS, NEC    | 58,707    |           | 58,707    |           |           |        |
| 2811 CRUDE TAR, OIL, GAS PRODUCTS | 15,251    |           |           | 15,251    |           |        |
| 2817 BENZENE AND TOLUENE          | 18,376    |           |           | 18,376    |           |        |
| 2911 GASOLINE                     | 39,076    |           | 3,817     | 35,259    |           |        |
| 2912 JET FUEL                     | 127,503   |           |           | 121,448   | 6,055     |        |
| 2913 KEROSENE                     | 3,368     |           |           | 3,368     |           |        |
| 2914 DISTILLATE FUEL OIL          | 72,279    |           | 10,200    | 52,721    | 9,009     | 4,349  |
| 2915 RESIDUAL FUEL OIL            | 248,961   | 15,217    | 97,882    | 31,297    | 31,859    | 72,686 |
| 2917 NAPHTHA, PETROLEUM SOLVENTS  | 1,495     |           |           | 1,495     |           |        |
| 2918 ASPHALT, TAR, AND BITUMENS   | 59,764    |           | 49,840    | 8,224     |           |        |
| 2920 COKE, PETROLEUM COKE         | 31,834    |           |           |           |           |        |
| 3241 BUILDING CEMENT              | 127,504   |           | 127,504   |           |           |        |
| 3311 PIG IRON                     | 14,474    |           |           | 14,474    |           |        |
| 3312 SLAG                         | 8,500     |           | 8,500     |           |           |        |

TONS, ALL TRAFFIC.

5,986,470.

# BUFFALO, N. Y., DISTRICT

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OSWEGO HARBOR, N. Y.

SECTION INCLUDED: OUTER HARBOR AND OSWEGO RIVER FROM MOUTH TO NEW YORK STATE BARGE CANAL LOCK NO. 8, CONTROLLING DEPTH THROUGH OUTER HARBOR IS 24 FEET, CONTROLLING AND PROJECT DEPTHS; LAKE APPROACH CHANNEL, 27 FEET; CHANNEL THROUGH OUTER HARBOR, 25 FEET; LOWER 1,600 FEET OF OSWEGO RIVER CHANNEL, 24 FEET; REMAINDER OF OSWEGO RIVER CHANNEL AND OSWEGO HARBOR, 21 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

| YEAR      | TONS    | YEAR      | TONS      |
|-----------|---------|-----------|-----------|
| 1971----- | 491,196 | 1976----- | 1,014,135 |
| 1972----- | 779,417 | 1977----- | 1,346,112 |
| 1973----- | 930,877 | 1978----- | 1,219,979 |
| 1974----- | 982,343 | 1979----- | 1,499,967 |
| 1975----- | 847,987 | 1980----- | 860,144   |

## FREIGHT TRAFFIC, 1980

(SHORT TONS)

| COMMODITY                               | TOTAL   | FOREIGN  |          |         | DOMESTIC |          | LOCAL |
|---|---------|----------|----------|---------|----------|----------|-------|
|   |         | OVERSEAS | CANADIAN |         | LAKEWIDE |          |       |
|   |         |          | IMPORTS  | IMPORTS | EXPORTS  | RECEIPTS |       |
| TOTAL-----                              | 860,144 | 11,917   | 663,858  | 5,009   | 170,388  | 8,961    | 11    |
| 0102 BARLEY AND RYE-----                | 31,170  |          |          |         | 31,170   |          |       |
| 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 11      |          |          |         |          |          | 11    |
| 2211 BASIC TEXTILE PRODUCTS-----        | 5,295   | 5,295    |          |         |          |          |       |
| 2873 PHOSPHATIC CHEM FERTILIZERS-----   | 45,984  |          | 45,984   |         |          |          |       |
| 2914 DISTILLATE FUEL OIL-----           | 14,293  |          | 14,293   |         |          |          |       |
| 2915 RESIDUAL FUEL OIL-----             | 648,838 |          | 518,984  |         | 131,854  |          |       |
| 2916 LUBRICATING OILS AND GREASES-----  | 5,009   |          |          | 5,009   |          |          |       |
| 3241 BUILDING CEMENT-----               | 96,439  | 6,622    | 82,461   |         | 7,356    |          |       |
| 3312 SLAG-----                          | 8,961   |          |          |         |          |          |       |
| 3324 ALUMINUM AND ALLOYS, UNWORKED----- | 4,176   |          | 4,176    |         |          | 8,961    |       |



## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

| OTHER HARBORS AND WATERWAYS                                |   |         |            |
|--|---|---------|------------|
| HARBOR OR WATERWAY   | COMMODITY                               | TONS    | PASSENGERS |
| PROJECT  |   |         |            |
| BARCELONA HARBOR, N. Y.-----                               | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 39      | -----      |
| CAPE VINCENT, N. Y.-----                                   | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 5       | 39,628     |
| DUNKIRK HARBOR, N. Y.-----                                 | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 109     | -----      |
| GREAT SODUS BAY HARBOR, N. Y.-----                         | NO COMMERCE REPORTED                    |         |            |
| KELLEYS ISLAND, OHIO-----                                  | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 4       | -----      |
|  | 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 108     | -----      |
|  | 2094 GROCERIES-----                     | 240     | -----      |
|  | 2095 ICE-----                           | 58      | -----      |
|  | 2099 MISCELLANEOUS FOOD PRODUCTS-----   | 298     | -----      |
|  | 2911 FURNITURE AND FIXTURES-----        | 71      | -----      |
|  | 2911 GASOLINE-----                      | 940     | -----      |
|  | 2914 DISTILLATE FUEL OIL-----           | 433     | -----      |
|  | 2910 ASPHALT, TAR, AND PITCHES-----     | 185     | -----      |
|  | 2921 LIQUEFIED GASES-----               | 70      | -----      |
|  | 3411 FABRICATED METAL PRODUCTS-----     | 3       | -----      |
|  | 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 389     | -----      |
|  | 3711 MOTOR VEHICLES, PARTS, EQUIP-----  | 50      | -----      |
|  | 4112 COMMODITIES, NEC-----              | 685     | -----      |
|  | TOTAL-----                              | 3,234   | 157,222    |
| NIAGARA FALLS, N. Y.-----                                  | NO COMMERCE REPORTED                    |         |            |
| ODDENSBURG HARBOR, N. Y.-----                              | 1091 NONFERROUS ORES, CONCENT, NEC----- | 15,641  | -----      |
|  | 1411 LIMESTONE-----                     | 22,080  | -----      |
|  | 1499 NONMETALLIC MINERALS, NEC-----     | 26,309  | -----      |
|  | 2911 GASOLINE-----                      | 51,039  | -----      |
|  | 2913 KEROSENE-----                      | 3,021   | -----      |
|  | 2914 DISTILLATE FUEL OIL-----           | 15,842  | -----      |
|  | 2915 RESIDUAL FUEL OIL-----             | 15,394  | -----      |
|  | 4024 PAPER WASTE AND SCRAP-----         | 125     | -----      |
|  | TOTAL-----                              | 149,371 | -----      |
| PORT CLINTON HARBOR, OHIO-----                             | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 1,175   | -----      |
|  | 1442 SAND, GRAVEL, CRUSHED ROCK-----    | 12,355  | -----      |
|  | 2911 GASOLINE-----                      | 97      | -----      |
|  | 2914 DISTILLATE FUEL OIL-----           | 415     | -----      |
|  | 3511 MACHINERY, EXCEPT ELECTRICAL-----  | 108     | -----      |
|  | 4112 COMMODITIES, NEC-----              | 5,254   | -----      |
|  | TOTAL-----                              | 19,404  | 59,347     |
| ROCHESTER (CHARLOTTE) HARBOR, N. Y.-----                   | 2915 RESIDUAL FUEL OIL-----             | 17,121  | -----      |
|  | 3241 BUILDING CEMENT-----               | 165,960 | -----      |
|  | TOTAL-----                              | 178,081 | -----      |
| SACKETTS HARBOR, N. Y.-----                                | NO COMMERCE REPORTED                    |         |            |
| TONAWANDA HARBOR, N. Y. (INCLUDED IN PORT OF BUFFALO)----- | NO COMMERCE REPORTED                    |         |            |
| VERMILION HARBOR, OHIO-----                                | 0911 FRESH FISH, EXCEPT SHELLFISH-----  | 589     | -----      |
| WADDINGTON HARBOR, N. Y.-----                              | NO COMMERCE REPORTED                    |         |            |

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Section 2  
TRIPS AND DRAFTS OF VESSELS

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67/68

## ST. PAUL, MINN., DISTRICT (GREAT LAKES PORTION)

69

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY                     | DIRECTION               |        |                    |                            |        |       | DIRECTION               |        |                    |                            |        |       |
|--|-------------------------|--------|--------------------|----------------------------|--------|-------|-------------------------|--------|--------------------|----------------------------|--------|-------|
|  | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL |
|  | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |       | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |       |
| TWO HARBORS (AGATE BAY), MINN.         |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 28 -                                   | 2                       |        |                    | INBOUND                    |        | 3     | 38                      |        |                    | OUTBOUND                   |        | 50    |
| 27 -                                   |                         |        |                    | 1                          |        | 1     | 106                     |        | 3                  | 12                         |        | 143   |
| 26 -                                   |                         |        | 30                 | 6                          |        | 36    | 21                      |        | 30                 | 32                         |        | 57    |
| 25 -                                   |                         |        | 3                  | 39                         |        | 42    | 20                      |        |                    | 6                          |        | 20    |
| 24 -                                   | 42                      |        |                    |                            |        | 42    |                         |        |                    |                            |        |       |
| 23 -                                   | 55                      |        |                    |                            |        | 55    |                         |        |                    |                            |        |       |
| 22 -                                   | 1                       |        |                    |                            |        | 1     | 1                       |        |                    |                            |        | 5     |
| 21 -                                   |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 20 -                                   | 32                      |        |                    | 3                          |        | 35    |                         |        |                    |                            |        |       |
| 19 -                                   | 47                      |        |                    |                            |        | 47    |                         |        |                    |                            |        |       |
| 18 -                                   | 4                       |        |                    |                            |        | 4     |                         |        |                    |                            |        |       |
| 17 -                                   | 1                       |        |                    |                            |        | 1     |                         |        |                    |                            |        |       |
| 16 -                                   | 1                       |        |                    |                            |        | 1     |                         |        |                    |                            |        |       |
| 15 -                                   | 4                       |        |                    |                            |        | 4     |                         |        |                    |                            |        |       |
| 12 AND LESS -                          | 514                     |        |                    |                            |        | 514   | 514                     |        |                    |                            |        | 514   |
| TOTAL -                                | 703                     |        | 33                 | 50                         |        | 786   | 706                     |        | 33                 | 50                         |        | 789   |
| DULUTH-SUPERIOR HARBOR, MINN. AND WIS. |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 32 -                                   | 1                       |        |                    | INBOUND                    |        | 1     |                         |        |                    | OUTBOUND                   |        |       |
| 30 -                                   |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 29 -                                   |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 28 -                                   | 3                       |        |                    | 3                          |        | 6     | 83                      |        |                    | 3                          |        | 86    |
| 27 -                                   | 7                       |        |                    |                            |        | 7     | 400                     |        |                    |                            |        | 400   |
| 26 -                                   | 39                      |        |                    |                            |        | 39    | 643                     |        | 1                  |                            |        | 644   |
| 25 -                                   | 22                      |        |                    |                            |        | 22    | 80                      |        |                    |                            |        | 80    |
| 24 -                                   | 24                      |        |                    |                            |        | 24    | 58                      |        |                    |                            |        | 58    |
| 23 -                                   | 62                      |        |                    |                            |        | 62    | 108                     |        |                    |                            |        | 108   |
| 22 -                                   | 81                      | 11     |                    |                            |        | 92    | 99                      |        |                    |                            |        | 99    |
| 21 -                                   | 127                     | 4      |                    |                            |        | 131   | 51                      |        |                    | 1                          |        | 52    |
| 20 -                                   | 373                     | 2      |                    | 1                          |        | 376   | 48                      |        |                    |                            |        | 46    |
| 19 -                                   | 323                     | 3      |                    |                            |        | 326   | 26                      | 11     |                    |                            |        | 37    |
| 18 -                                   | 251                     |        |                    |                            |        | 251   | 32                      | 3      |                    |                            |        | 35    |
| 17 -                                   | 239                     | 1      |                    |                            |        | 240   | 48                      | 2      |                    |                            |        | 50    |
| 16 -                                   | 248                     |        |                    |                            |        | 248   | 18                      | 9      |                    |                            |        | 27    |
| 15 -                                   | 13                      |        | 1                  |                            |        | 14    | 2                       |        |                    |                            |        | 2     |
| 14 -                                   | 10                      |        | 1                  |                            |        | 11    | 136                     |        |                    |                            |        | 136   |
| 13 -                                   | 1                       |        |                    |                            | 1      | 2     | 5                       |        |                    |                            |        | 5     |
| 12 AND LESS -                          | 1,299                   | 7      | 4                  |                            | 3      | 1,313 | 1,298                   | 3      | 5                  |                            | 4      | 1,310 |
| TOTAL -                                | 3,123                   | 28     | 6                  | 4                          | 4      | 3,165 | 3,137                   | 28     | 6                  | 4                          | 4      | 3,179 |
| ASHLAND HARBOR, WIS.                   |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 21 -                                   | 4                       |        |                    | INBOUND                    |        | 4     | 1                       |        |                    | OUTBOUND                   |        | 1     |
| 20 -                                   | 12                      |        |                    |                            |        | 12    | 8                       |        |                    |                            |        | 8     |
| 19 -                                   | 5                       |        |                    |                            |        | 5     | 1                       |        |                    |                            |        | 1     |
| 18 -                                   |                         |        |                    |                            |        |       | 5                       |        |                    |                            |        | 5     |
| 17 -                                   |                         |        |                    |                            |        |       | 2                       |        |                    |                            |        | 2     |
| 16 -                                   |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 15 -                                   |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 14 -                                   |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 12 AND LESS -                          | 20                      |        |                    |                            |        | 20    | 20                      |        |                    |                            |        | 20    |
| TOTAL -                                | 41                      |        |                    |                            |        | 41    | 40                      |        |                    |                            |        | 40    |
| BAYFIELD HARBOR, WIS.                  |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| TOTAL, 5 AND LESS -                    | 6,984                   |        |                    | INBOUND                    |        | 6,984 | 6,991                   |        |                    | OUTBOUND                   |        | 6,991 |
| BEAVER BAY HARBOR, MINN.               |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| TOTAL, 5 AND LESS -                    | 552                     |        |                    | INBOUND                    |        | 552   | 550                     |        |                    | OUTBOUND                   |        | 550   |
| CORNUCOPIA HARBOR, WIS.                |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| TOTAL, 5 AND LESS -                    | 300                     |        |                    | INBOUND                    |        | 300   | 300                     |        |                    | OUTBOUND                   |        | 300   |
| GRAND MARAIS HARBOR, MINN.             |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| TOTAL, 5 AND LESS -                    | 592                     |        |                    | INBOUND                    |        | 592   | 592                     |        |                    | OUTBOUND                   |        | 592   |
| KNIFE RIVER HARBOR, MINN.              |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| TOTAL, 5 AND LESS -                    | 404                     |        |                    | INBOUND                    |        | 404   | 406                     |        |                    | OUTBOUND                   |        | 406   |
| LA POINTE HARBOR, WIS.                 |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| TOTAL, 5 AND LESS -                    | 4,391                   |        |                    | INBOUND                    |        | 4,391 | 4,389                   |        |                    | OUTBOUND                   |        | 4,389 |
| LUTSEN HARBOR, MINN.                   |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| TOTAL, 5 AND LESS -                    | 84                      |        |                    | INBOUND                    |        | 84    | 84                      |        |                    | OUTBOUND                   |        | 84    |
| PORT WING HARBOR, WIS.                 |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| TOTAL, 5 AND LESS -                    | 541                     |        |                    | INBOUND                    |        | 541   | 541                     |        |                    | OUTBOUND                   |        | 541   |
| WARROAD HARBOR, MINN.                  |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| TOTAL, 5 AND LESS -                    | 1,317                   |        |                    | INBOUND                    |        | 1,317 | 1,317                   |        |                    | OUTBOUND                   |        | 1,317 |

WATERBORNE COMMERCE OF THE UNITED STATES, 1980  
ST. PAUL, MINN., DISTRICT (GREAT LAKES PORTION)

| TRIPS AND DRAFTS OF VESSELS                  |                         |        |                    |                            |        |       |                         |                            |                    |          |           |        |
|--|-------------------------|--------|--------------------|----------------------------|--------|-------|-------------------------|----------------------------|--------------------|----------|-----------|--------|
| HARBOR OR WATERWAY                           | DIRECTION               |        |                    |                            |        |       |                         |                            |                    |          |           |        |
|  | SELF PROPELLED VESSELS  |        |                    | NON SELF PROPELLED VESSELS |        | TOTAL | DIRECTION               |                            |                    |          |           |        |
|  | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |       | SELF PROPELLED VESSELS  | NON SELF PROPELLED VESSELS |                    | TOTAL    |           |        |
| DRAFT (FEET)                                 | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |       | PASSENGER AND DRY CARGO | TANKER                     | TOWBOAT OR TUGBOAT |          | DRY CARGO | TANKER |
| SILVER BAY, MINN.<br>TOTAL, 20 AND LESS      | 937                     |        |                    | INBOUND                    |        | 937   | 536                     |                            |                    | OUTBOUND |           | 536    |
| TACONITE HARBOR, MINN.<br>TOTAL, 20 AND LESS | 221                     |        | 4                  | INBOUND<br>1               | 2      | 226   | 219                     |                            | 2                  | OUTBOUND | 2         | 223    |

## CHICAGO, ILL., DISTRICT

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## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY           | DIRECTION               |        |                    |                            |        |       | DIRECTION               |        |                    |                            |        |       |
|------------------------------|-------------------------|--------|--------------------|----------------------------|--------|-------|-------------------------|--------|--------------------|----------------------------|--------|-------|
|                              | SELF PROPELLED VESSELS  |        |                    | NON SELF PROPELLED VESSELS |        |       | SELF PROPELLED VESSELS  |        |                    | NON SELF PROPELLED VESSELS |        |       |
|                              | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL |
| GREEN BAY HARBOR, WIS.       |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 26 - - - - -                 |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 25 - - - - -                 | 1                       |        |                    |                            |        | 1     | 1                       |        |                    |                            |        | 1     |
| 24 - - - - -                 | 20                      | 1      |                    |                            |        | 21    | 3                       | 2      |                    |                            |        | 5     |
| 23 - - - - -                 | 31                      | 9      |                    |                            |        | 36    |                         | 5      |                    |                            |        | 5     |
| 22 - - - - -                 | 27                      | 7      |                    |                            |        | 34    | 3                       | 1      |                    |                            |        | 4     |
| 21 - - - - -                 | 44                      | 4      |                    |                            |        | 48    | 8                       | 1      |                    |                            |        | 9     |
| 20 - - - - -                 | 37                      | 2      |                    |                            |        | 39    | 5                       | 1      |                    |                            |        | 6     |
| 19 - - - - -                 | 7                       |        |                    |                            |        | 7     | 7                       | 1      |                    |                            |        | 8     |
| 18 - - - - -                 | 3                       |        |                    |                            |        | 3     | 31                      | 2      |                    |                            |        | 33    |
| 17 - - - - -                 | 6                       |        |                    |                            | 3      | 11    | 20                      | 2      |                    |                            |        | 22    |
| 16 - - - - -                 | 2                       |        | 4                  |                            |        | 6     | 37                      | 2      | 4                  |                            |        | 43    |
| 15 - - - - -                 | 3                       |        |                    |                            | 1      | 4     | 13                      | 3      |                    |                            |        | 16    |
| 14 - - - - -                 |                         |        |                    |                            |        | 7     |                         |        |                    |                            |        | 7     |
| 13 - - - - -                 |                         |        |                    |                            |        | 12    |                         |        |                    |                            |        | 12    |
| 12 AND LESS - - - - -        | 1,217                   |        |                    |                            |        | 1,217 | 1,252                   |        | 2                  |                            | 3      | 1,257 |
| TOTAL - - - - -              | 1,400                   | 19     | 4                  |                            | 4      | 1,427 | 1,399                   | 20     | 6                  |                            | 3      | 1,428 |
| KEWAUNEE HARBOR, WIS.        |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 20 - - - - -                 | 338                     |        |                    |                            |        | 339   | 338                     |        |                    |                            |        | 338   |
| 18 - - - - -                 | 99                      |        |                    |                            |        | 99    | 100                     |        |                    |                            |        | 100   |
| 17 - - - - -                 | 516                     |        |                    |                            |        | 516   | 521                     |        |                    |                            |        | 521   |
| 15 - - - - -                 | 98                      |        |                    |                            |        | 98    | 103                     |        |                    |                            |        | 103   |
| 14 - - - - -                 | 1                       |        | 1                  |                            |        | 1     |                         |        |                    |                            |        |       |
| 12 AND LESS - - - - -        | 14                      |        |                    |                            |        | 14    | 16                      |        | 1                  | 1                          |        | 18    |
| TOTAL - - - - -              | 1,065                   |        | 1                  | 1                          |        | 1,067 | 1,078                   |        | 1                  | 1                          |        | 1,080 |
| MAYTOWOC HARBOR, WIS.        |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 21 - - - - -                 | 21                      |        |                    |                            |        | 21    |                         |        |                    |                            |        |       |
| 20 - - - - -                 | 276                     |        |                    |                            |        | 276   | 271                     |        |                    |                            |        | 271   |
| 19 - - - - -                 | 4                       |        |                    |                            |        | 4     |                         |        |                    |                            |        |       |
| 18 - - - - -                 | 58                      |        |                    |                            |        | 58    | 57                      |        |                    |                            |        | 57    |
| 17 - - - - -                 | 88                      |        |                    |                            |        | 88    | 90                      |        |                    |                            |        | 90    |
| 16 - - - - -                 | 2                       |        |                    |                            |        | 2     |                         |        |                    |                            |        |       |
| 15 - - - - -                 | 34                      |        |                    |                            |        | 34    | 39                      |        |                    |                            |        | 39    |
| 14 - - - - -                 |                         |        |                    |                            |        |       | 30                      |        |                    |                            |        | 30    |
| 12 AND LESS - - - - -        | 2                       |        |                    |                            |        | 2     |                         |        |                    |                            |        |       |
| TOTAL - - - - -              | 489                     |        |                    |                            |        | 489   | 487                     |        |                    |                            |        | 487   |
| PORT WASHINGTON HARBOR, WIS. |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 21 - - - - -                 | 31                      |        |                    |                            |        | 31    | 15                      |        |                    |                            |        | 15    |
| 20 - - - - -                 | 3                       |        |                    |                            |        | 3     | 8                       |        |                    |                            |        | 8     |
| 19 - - - - -                 | 1                       | 13     |                    |                            |        | 14    | 1                       | 1      |                    |                            |        | 2     |
| 18 - - - - -                 |                         |        |                    |                            | 2      | 1     | 8                       |        |                    |                            |        | 8     |
| 17 - - - - -                 |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 16 - - - - -                 |                         |        |                    |                            |        |       | 1                       | 1      |                    |                            |        | 2     |
| 14 - - - - -                 |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 13 - - - - -                 |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 12 AND LESS - - - - -        | 54                      |        | 2                  |                            |        | 56    | 54                      | 9      | 2                  |                            | 1      | 66    |
| TOTAL - - - - -              | 89                      | 13     | 2                  |                            | 1      | 105   | 89                      | 12     | 2                  |                            | 1      | 104   |
| MILWAUKEE HARBOR, WIS.       |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 27 - - - - -                 | 1                       |        |                    |                            |        | 1     | 11                      |        |                    |                            |        | 11    |
| 26 - - - - -                 | 5                       | 2      |                    |                            |        | 10    | 62                      | 3      |                    |                            |        | 65    |
| 25 - - - - -                 | 11                      |        |                    |                            |        | 12    | 10                      |        |                    |                            |        | 10    |
| 24 - - - - -                 | 15                      |        |                    |                            |        | 17    | 9                       | 1      |                    |                            |        | 10    |
| 23 - - - - -                 | 24                      | 2      |                    |                            |        | 26    | 10                      | 1      |                    |                            |        | 11    |
| 22 - - - - -                 | 40                      |        |                    |                            |        | 40    | 42                      |        |                    |                            |        | 42    |
| 21 - - - - -                 | 62                      |        |                    |                            |        | 62    | 17                      | 2      |                    |                            |        | 19    |
| 20 - - - - -                 | 284                     |        |                    |                            |        | 287   | 217                     | 6      | 1                  | 2                          |        | 225   |
| 19 - - - - -                 | 61                      | 2      |                    |                            |        | 63    | 29                      | 19     |                    |                            |        | 48    |
| 18 - - - - -                 | 37                      |        |                    |                            |        | 37    | 43                      | 10     |                    |                            |        | 53    |
| 17 - - - - -                 | 19                      | 1      |                    |                            | 2      | 22    | 17                      | 5      |                    |                            |        | 22    |
| 16 - - - - -                 | 12                      |        | 1                  |                            |        | 13    | 11                      | 15     | 9                  |                            |        | 31    |
| 15 - - - - -                 | 4                       | 1      |                    |                            |        | 6     | 8                       |        | 6                  | 2                          |        | 16    |
| 14 - - - - -                 | 2                       |        |                    |                            | 1      | 5     | 103                     |        | 2                  |                            |        | 105   |
| 13 - - - - -                 | 4                       |        |                    |                            | 2      | 11    | 23                      | 1      | 5                  |                            |        | 29    |
| 12 AND LESS - - - - -        | 771                     | 1      | 10                 | 9                          | 8      | 795   | 776                     | 1      | 7                  | 5                          | 11     | 800   |
| TOTAL - - - - -              | 1,355                   | 64     | 19                 | 8                          | 13     | 1,459 | 1,356                   | 64     | 26                 | 11                         | 11     | 1,468 |
| MAUKEGAN HARBOR, ILL.        |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 21 - - - - -                 | 1                       |        |                    |                            |        | 1     |                         |        |                    |                            |        |       |
| 20 - - - - -                 | 8                       |        |                    |                            |        | 8     | 1                       |        |                    |                            |        | 1     |
| 19 - - - - -                 | 17                      |        |                    |                            |        | 17    |                         |        |                    |                            |        |       |
| 18 - - - - -                 | 9                       |        |                    |                            |        | 9     |                         |        |                    |                            |        |       |
| 17 - - - - -                 | 3                       |        |                    |                            |        | 3     |                         |        |                    |                            |        |       |
| 16 - - - - -                 | 1                       |        |                    |                            |        | 1     |                         |        |                    |                            |        |       |
| 15 - - - - -                 |                         |        |                    |                            |        |       | 5                       |        |                    |                            |        | 5     |
| 14 - - - - -                 |                         |        |                    |                            |        |       | 6                       |        |                    |                            |        | 6     |
| 13 - - - - -                 |                         |        |                    |                            |        |       | 17                      |        |                    |                            |        | 17    |
| 12 AND LESS - - - - -        | 74                      |        |                    |                            |        | 74    | 82                      |        |                    |                            |        | 82    |
| TOTAL - - - - -              | 113                     |        |                    |                            |        | 113   | 111                     |        |                    |                            |        | 111   |

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## CHICAGO, ILL., DISTRICT

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY                          | DIRECTION               |        |                    |                            |        |        | DIRECTION               |        |                    |                            |        |        |
|---|-------------------------|--------|--------------------|----------------------------|--------|--------|-------------------------|--------|--------------------|----------------------------|--------|--------|
|   | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |        | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |        |
|   | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL  | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL  |
| CHICAGO HARBOR, ILL.                        |                         |        |                    | INBOUND                    |        |        |                         |        |                    | OUTBOUND                   |        |        |
| 25 - - - - -                                | 4                       |        |                    |                            |        | 4      |                         |        |                    |                            |        | 2      |
| 22 - - - - -                                | 4                       |        |                    |                            |        | 4      | 2                       |        |                    |                            |        | 1      |
| 21 - - - - -                                | 4                       |        |                    |                            |        | 4      |                         |        |                    |                            |        | 3      |
| 19 - - - - -                                | 2                       |        |                    |                            |        | 2      | 1                       |        |                    |                            |        | 4      |
| 18 - - - - -                                |                         |        |                    |                            |        |        | 3                       |        |                    |                            |        | 4      |
| 17 - - - - -                                |                         |        |                    |                            |        |        | 4                       |        |                    |                            |        | 49     |
| 16 - - - - -                                |                         |        | 41                 |                            | 2      | 43     | 1                       |        | 48                 |                            |        | 37     |
| 15 - - - - -                                | 2                       |        | 33                 |                            |        | 35     | 3                       |        | 34                 |                            |        | 1      |
| 14 - - - - -                                |                         |        |                    |                            | 7      | 7      |                         |        |                    |                            | 1      | 65     |
| 13 - - - - -                                | 6                       |        | 56                 |                            | 1      | 63     | 4                       |        | 61                 |                            |        | 2,718  |
| 12 AND LESS - - - - -                       | 2,911                   |        | 129                | 99                         | 10     | 2,749  | 2,511                   |        | 109                | 93                         | 9      | 2,800  |
| TOTAL - - - - -                             | 2,933                   |        | 259                | 99                         | 20     | 2,911  | 2,529                   |        | 248                | 93                         | 10     | 2,800  |
| CHICAGO RIVER (MAIN AND NORTH BRANCH), ILL. |                         |        |                    | UPBOUND                    |        |        |                         |        |                    | DOWNBOUND                  |        |        |
| 21 - - - - -                                | 6                       |        |                    | 3                          |        | 9      | 1                       | 1      |                    | 3                          |        | 5      |
| 20 - - - - -                                |                         |        |                    | 1                          |        | 1      | 3                       |        |                    |                            |        | 3      |
| 19 - - - - -                                |                         |        |                    |                            |        |        | 2                       |        |                    |                            |        | 2      |
| 18 - - - - -                                |                         |        |                    |                            |        |        | 17                      |        |                    |                            |        | 17     |
| 17 - - - - -                                | 1                       |        | 1                  |                            |        | 2      | 1                       |        | 1                  |                            | 4      | 6      |
| 16 - - - - -                                |                         |        | 12                 |                            |        | 12     |                         |        | 9                  |                            |        | 9      |
| 15 - - - - -                                |                         | 1      | 21                 |                            |        | 22     |                         |        | 15                 |                            | 3      | 18     |
| 14 - - - - -                                | 17                      |        | 2                  |                            | 2      | 21     | 1                       |        | 3                  |                            | 9      | 13     |
| 13 - - - - -                                | 10                      |        | 109                |                            | 1      | 120    | 6                       |        | 97                 |                            | 21     | 124    |
| 12 AND LESS - - - - -                       | 422                     |        | 571                | 1,388                      | 225    | 2,606  | 422                     |        | 612                | 1,369                      | 188    | 2,591  |
| TOTAL - - - - -                             | 456                     | 1      | 716                | 1,392                      | 228    | 2,793  | 453                     | 1      | 737                | 1,572                      | 225    | 2,788  |
| CHICAGO RIVER, SOUTH BRANCH, ILL.           |                         |        |                    | UPBOUND                    |        |        |                         |        |                    | DOWNBOUND                  |        |        |
| TOTAL, 12 AND LESS - - - - -                | 242                     | 1      | 740                | 2,098                      | 223    | 3,302  | 238                     | 1      | 777                | 2,076                      | 238    | 3,330  |
| CHICAGO SANITARY AND SHIP CANAL, ILL.       |                         |        |                    | UPBOUND                    |        |        |                         |        |                    | DOWNBOUND                  |        |        |
| TOTAL, 12 AND LESS - - - - -                | 42                      |        | 2,955              | 9,996                      | 3,957  | 16,950 | 32                      |        | 2,863              | 10,411                     | 4,192  | 17,500 |
| CALUMET-SAG CHANNEL, ILL.                   |                         |        |                    | UPBOUND                    |        |        |                         |        |                    | DOWNBOUND                  |        |        |
| 9 - - - - -                                 | 2                       |        | 232                | 666                        | 244    | 1,144  | 2                       |        | 235                | 740                        | 443    | 1,420  |
| 8 - - - - -                                 |                         |        | 265                | 277                        | 193    | 795    |                         |        | 290                | 497                        | 89     | 876    |
| 7 - - - - -                                 |                         |        | 32                 | 69                         | 3      | 100    |                         |        | 32                 | 257                        | 5      | 294    |
| 6 - - - - -                                 |                         |        | 95                 | 190                        | 1      | 246    |                         |        | 68                 | 203                        | 2      | 293    |
| 5 - - - - -                                 | 13                      |        |                    | 44                         | 4      | 61     | 13                      |        |                    | 48                         | 2      | 63     |
| 4 - - - - -                                 |                         |        |                    | 7                          | 7      | 14     |                         |        |                    | 32                         |        | 32     |
| 3 - - - - -                                 |                         |        |                    | 5                          | 10     | 15     |                         |        |                    | 16                         | 28     | 44     |
| 2 - - - - -                                 | 1                       |        | 2                  | 1,098                      | 449    | 1,550  |                         |        |                    | 497                        | 302    | 799    |
| 1 - - - - -                                 |                         |        |                    |                            | 4      | 4      |                         |        |                    | 3                          | 8      | 11     |
| TOTAL - - - - -                             | 16                      |        | 646                | 2,312                      | 915    | 3,869  | 15                      |        | 645                | 2,293                      | 879    | 3,832  |
| LAKE CALUMET, ILL.                          |                         |        |                    | INBOUND                    |        |        |                         |        |                    | OUTBOUND                   |        |        |
| 27 - - - - -                                |                         |        |                    |                            |        |        |                         |        |                    |                            |        | 1      |
| 26 - - - - -                                | 3                       | 1      |                    |                            |        | 4      | 7                       | 1      |                    |                            |        | 10     |
| 25 - - - - -                                | 2                       | 3      |                    |                            |        | 5      | 5                       | 1      |                    |                            |        | 6      |
| 24 - - - - -                                | 5                       |        |                    |                            |        | 5      | 6                       | 1      |                    |                            |        | 7      |
| 23 - - - - -                                | 5                       | 4      |                    |                            |        | 9      | 8                       | 3      |                    |                            |        | 9      |
| 22 - - - - -                                | 11                      | 3      |                    |                            |        | 14     | 11                      | 3      |                    |                            |        | 12     |
| 21 - - - - -                                | 1                       |        |                    |                            |        | 4      | 3                       | 2      |                    |                            |        | 5      |
| 20 - - - - -                                | 4                       | 1      |                    |                            |        | 5      | 3                       |        |                    |                            |        | 3      |
| 19 - - - - -                                | 8                       | 5      |                    | 1                          |        | 14     | 1                       | 3      |                    | 1                          |        | 5      |
| 18 - - - - -                                | 2                       | 6      |                    |                            |        | 8      | 4                       |        |                    |                            |        | 4      |
| 17 - - - - -                                | 5                       | 1      |                    |                            |        | 6      | 2                       |        |                    |                            |        | 2      |
| 16 - - - - -                                |                         | 1      | 4                  |                            |        | 5      | 1                       |        |                    |                            |        | 1      |
| 15 - - - - -                                |                         |        |                    |                            | 1      | 1      |                         |        | 2                  |                            |        | 2      |
| 14 - - - - -                                | 1                       |        | 1                  |                            |        | 2      |                         | 1      | 1                  |                            |        | 2      |
| 13 - - - - -                                |                         |        | 4                  |                            |        | 4      |                         |        | 4                  |                            |        | 4      |
| 12 AND LESS - - - - -                       |                         | 3      | 93                 | 286                        | 218    | 600    |                         | 9      | 77                 | 283                        | 143    | 452    |
| TOTAL - - - - -                             | 51                      | 28     | 102                | 287                        | 219    | 687    | 49                      | 25     | 84                 | 284                        | 143    | 525    |
| CALUMET HARBOR AND RIVER, ILL. AND IND.     |                         |        |                    | EASTBOUND                  |        |        |                         |        |                    | WESTBOUND                  |        |        |
| 28 - - - - -                                | 3                       | 1      |                    |                            |        | 4      | 1                       |        |                    | 5                          |        | 6      |
| 27 - - - - -                                | 3                       |        |                    |                            |        | 3      | 91                      |        |                    | 19                         |        | 73     |
| 26 - - - - -                                | 81                      | 3      | 16                 | 6                          |        | 106    | 78                      | 1      | 13                 | 6                          |        | 180    |
| 25 - - - - -                                | 11                      | 1      |                    | 3                          |        | 15     | 48                      | 3      |                    |                            |        | 51     |
| 24 - - - - -                                | 28                      | 2      |                    |                            |        | 30     | 34                      |        |                    |                            |        | 34     |
| 23 - - - - -                                | 47                      | 4      | 2                  | 21                         |        | 74     | 33                      | 4      |                    |                            |        | 37     |
| 22 - - - - -                                | 46                      | 3      |                    |                            |        | 49     | 41                      | 6      |                    |                            |        | 47     |
| 21 - - - - -                                | 44                      | 2      |                    |                            |        | 46     | 32                      | 2      |                    |                            |        | 34     |
| 20 - - - - -                                | 116                     | 1      |                    |                            |        | 117    | 32                      |        |                    |                            |        | 32     |
| 19 - - - - -                                | 59                      | 3      |                    | 1                          |        | 63     | 94                      | 3      |                    | 1                          |        | 60     |
| 18 - - - - -                                | 89                      | 1      |                    |                            |        | 90     | 33                      | 7      |                    |                            |        | 40     |
| 17 - - - - -                                | 16                      |        |                    |                            |        | 16     | 33                      | 1      |                    |                            | 1      | 35     |
| 16 - - - - -                                | 22                      | 1      | 16                 | 1                          |        | 42     | 23                      | 1      | 11                 | 1                          |        | 36     |
| 15 - - - - -                                | 3                       |        | 72                 |                            |        | 25     | 12                      | 1      | 21                 |                            | 3      | 37     |
| 14 - - - - -                                | 7                       | 1      | 3                  |                            | 1      | 12     | 91                      |        | 4                  |                            | 10     | 105    |
| 13 - - - - -                                | 2                       |        | 14                 |                            | 2      | 18     | 3                       |        | 11                 |                            | 21     | 39     |
| 12 AND LESS - - - - -                       | 15                      | 11     | 906                | 2,166                      | 937    | 3,235  | 13                      | 9      | 478                | 2,197                      | 402    | 3,145  |
| TOTAL - - - - -                             | 588                     | 34     | 991                | 2,198                      | 940    | 3,941  | 612                     | 36     | 543                | 2,189                      | 927    | 3,967  |

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY                         | DIRECTION               |        |                    |                            |        |        | DIRECTION               |        |                    |                            |        |        |
|--|-------------------------|--------|--------------------|----------------------------|--------|--------|-------------------------|--------|--------------------|----------------------------|--------|--------|
|  | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |        | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |        |
|  | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL  | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL  |
| ILLINOIS RIVER, ILL.                       |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 9 - - - - -                                |                         |        |                    | UPBOUND                    |        |        |                         |        |                    | DOWNBOUND                  |        |        |
| 8 - - - - -                                |                         |        | 1,001              | 5,935                      | 1,633  | 9,449  |                         | 1      | 2,092              | 11,725                     | 2,479  | 16,297 |
| 7 - - - - -                                |                         |        | 992                | 1,001                      | 752    | 2,745  |                         |        | 994                | 1,509                      | 303    | 2,766  |
| 6 - - - - -                                | 1                       |        | 134                | 190                        | 14     | 347    |                         |        | 113                | 713                        | 14     | 840    |
| 5 - - - - -                                |                         |        | 217                | 211                        | 1      | 429    |                         |        | 117                | 866                        | 1      | 1,004  |
| 4 - - - - -                                |                         |        |                    | 30                         | 3      | 41     |                         |        |                    | 121                        | 1      | 122    |
| 3 - - - - -                                | 308                     |        |                    | 10                         | 2      | 326    | 308                     |        |                    | 60                         | 2      | 378    |
| 2 - - - - -                                |                         |        |                    | 37                         | 7      | 44     |                         |        |                    | 23                         | 69     | 92     |
| 1 - - - - -                                | 1                       |        | 77                 | 12,086                     | 2,005  | 14,169 |                         |        | 73                 | 5,312                      | 1,663  | 7,048  |
|  |                         |        |                    | 10                         | 47     | 57     |                         |        |                    | 16                         | 122    | 138    |
| TOTAL - - - - -                            | 310                     |        | 3,301              | 19,532                     | 4,464  | 27,607 | 308                     | 1      | 3,349              | 20,373                     | 4,654  | 28,685 |
| INDIANA HARBOR, IND.                       |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 29 - - - - -                               | 73                      |        |                    | INBOUND                    |        | 73     |                         |        |                    | OUTBOUND                   |        |        |
| 28 - - - - -                               | 40                      |        |                    | 2                          |        | 42     |                         |        |                    |                            |        | 6      |
| 27 - - - - -                               | 164                     |        |                    | 2                          |        | 166    |                         |        |                    |                            |        | 5      |
| 26 - - - - -                               | 99                      |        |                    |                            |        | 99     |                         |        |                    |                            |        | 4      |
| 25 - - - - -                               | 11                      | 1      |                    |                            |        | 12     |                         |        |                    |                            |        | 1      |
| 24 - - - - -                               | 7                       |        |                    |                            |        | 7      |                         |        |                    |                            |        | 50     |
| 23 - - - - -                               | 84                      |        |                    |                            |        | 84     |                         |        |                    |                            |        | 98     |
| 22 - - - - -                               | 10                      | 4      |                    |                            |        | 22     |                         | 68     |                    |                            |        | 120    |
| 21 - - - - -                               | 14                      | 14     |                    |                            |        | 28     |                         | 106    |                    |                            |        | 92     |
| 20 - - - - -                               | 20                      | 9      |                    |                            |        | 29     |                         | 12     |                    | 5                          |        | 126    |
| 19 - - - - -                               | 4                       | 98     |                    |                            |        | 62     |                         | 32     |                    |                            |        | 47     |
| 18 - - - - -                               | 4                       | 64     |                    |                            |        | 68     |                         | 5      |                    |                            | 2      | 20     |
| 17 - - - - -                               | 26                      |        |                    |                            | 12     | 38     |                         | 1      |                    |                            | 17     | 155    |
| 16 - - - - -                               | 6                       | 13     | 70                 | 1                          |        | 90     |                         | 1      | 57                 |                            |        | 38     |
| 15 - - - - -                               | 4                       | 4      | 40                 |                            |        | 44     |                         |        | 35                 |                            |        | 110    |
| 14 - - - - -                               | 43                      |        | 1                  |                            |        | 44     |                         |        | 1                  |                            |        | 69     |
| 13 - - - - -                               | 6                       | 2      | 90                 |                            |        | 88     |                         |        | 57                 |                            |        | 1,694  |
| 12 AND LESS - - - - -                      | 212                     | 31     | 298                | 697                        | 941    | 1,739  | 208                     | 2      | 318                | 848                        | 518    | 2,644  |
| TOTAL - - - - -                            | 761                     | 226    | 489                | 662                        | 953    | 2,691  | 746                     | 227    | 448                | 653                        | 550    | 2,644  |
| BURNS WATERWAY HARBOR, IND.                |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 28 - - - - -                               | 17                      |        |                    | INBOUND                    |        | 18     |                         |        |                    | OUTBOUND                   |        |        |
| 27 - - - - -                               | 78                      |        |                    | 1                          |        | 79     |                         |        |                    | 1                          |        | 4      |
| 26 - - - - -                               | 12                      |        |                    |                            |        | 12     |                         |        |                    |                            |        | 8      |
| 25 - - - - -                               | 21                      |        |                    |                            |        | 21     |                         |        |                    |                            |        | 4      |
| 24 - - - - -                               | 6                       |        |                    |                            |        | 6      |                         |        |                    |                            |        | 3      |
| 23 - - - - -                               | 9                       |        |                    |                            |        | 9      |                         |        |                    |                            |        | 11     |
| 22 - - - - -                               | 10                      |        |                    |                            |        | 10     |                         |        |                    |                            |        | 17     |
| 21 - - - - -                               | 12                      |        |                    |                            |        | 13     |                         |        |                    |                            |        | 17     |
| 20 - - - - -                               | 5                       |        |                    | 1                          |        | 6      |                         |        |                    |                            |        | 70     |
| 19 - - - - -                               | 5                       |        |                    |                            |        | 5      |                         |        |                    |                            |        | 45     |
| 18 - - - - -                               | 18                      |        |                    |                            |        | 18     |                         | 1      |                    |                            |        | 11     |
| 17 - - - - -                               | 3                       |        |                    |                            |        | 3      |                         |        |                    |                            |        | 10     |
| 16 - - - - -                               | 3                       |        |                    |                            |        | 3      |                         |        |                    |                            |        | 3      |
| 15 - - - - -                               | 3                       |        | 4                  |                            |        | 7      |                         |        |                    | 1                          |        | 2      |
| 14 - - - - -                               | 3                       |        | 2                  |                            |        | 5      |                         |        | 2                  |                            |        | 2      |
| 13 - - - - -                               | 11                      |        | 1                  |                            |        | 12     |                         |        | 1                  |                            | 1      | 2      |
| 12 AND LESS - - - - -                      | 191                     |        | 3                  | 374                        | 76     | 644    | 191                     |        | 4                  | 384                        | 75     | 654    |
| TOTAL - - - - -                            | 404                     |        | 10                 | 376                        | 76     | 866    | 392                     | 1      | 7                  | 386                        | 77     | 863    |
| ALGOMA HARBOR, WIS.                        |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| TOTAL, 9 AND LESS - - - - -                | 214                     |        |                    | INBOUND                    |        | 214    | 214                     |        |                    | OUTBOUND                   |        | 214    |
| DETROIT HARBOR, WIS.                       |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| TOTAL, 9 AND LESS - - - - -                | 3,436                   |        |                    | INBOUND                    |        | 3,436  | 3,442                   |        |                    | OUTBOUND                   |        | 3,442  |
| KENOSHA HARBOR, WIS.                       |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| TOTAL, 26 AND LESS - - - - -               | 232                     |        |                    | INBOUND                    |        | 232    | 232                     |        |                    | OUTBOUND                   |        | 232    |
| MEMPHINEE HARBOR AND RIVER, MICH. AND WIS. |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| TOTAL, 22 AND LESS - - - - -               | 1,624                   |        | 1                  | INBOUND                    |        | 1,626  | 1,626                   |        | 3                  | OUTBOUND                   |        | 1,630  |
| MICHIGAN CITY HARBOR, IND.                 |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| TOTAL, 9 AND LESS - - - - -                | 970                     |        |                    | INBOUND                    |        | 970    | 970                     |        |                    | OUTBOUND                   |        | 970    |
| OSCONTO HARBOR, WIS.                       |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| TOTAL, 9 AND LESS - - - - -                | 293                     |        |                    | INBOUND                    |        | 293    | 293                     |        |                    | OUTBOUND                   |        | 293    |
| PENSAUKEE HARBOR, WIS.                     |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| TOTAL, 9 AND LESS - - - - -                | 1,279                   |        |                    | INBOUND                    |        | 1,279  | 1,279                   |        |                    | OUTBOUND                   |        | 1,279  |
| RACINE HARBOR, WIS.                        |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| TOTAL, 17 AND LESS - - - - -               | 340                     |        | 11                 | INBOUND                    | 8      | 359    | 342                     |        | 9                  | OUTBOUND                   | 7      | 358    |
| SHEBOYGAN HARBOR, WIS.                     |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| TOTAL, 20 AND LESS - - - - -               | 192                     |        | 12                 | INBOUND                    | 12     | 217    | 190                     |        | 16                 | OUTBOUND                   | 10     | 217    |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

## CHICAGO, ILL., DISTRICT

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY   | DIRECTION               |        |                    |                            |        |       | DIRECTION               |        |                    |                            |        |       |
|--|-------------------------|--------|--------------------|----------------------------|--------|-------|-------------------------|--------|--------------------|----------------------------|--------|-------|
|  | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL |
|  | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |       | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |       |
| STURGEON BAY AND LAKE MICHIGAN<br>SHIP CANAL, WIS.<br>TOTAL, 23 AND LESS - - - - - | 409                     | 2      | 8                  | NORTHBOUND<br>3            |        | 422   | 407                     | 2      | 12                 | SOUTHBOUND<br>4            |        | 425   |
| TWO RIVERS HARBOR, WIS.<br>TOTAL, 9 AND LESS - - - - -                             | 944                     |        | 2                  | INBOUND<br>1               |        | 947   | 944                     |        | 1                  | OUTBOUND<br>2              |        | 947   |
| BUFFINGTON HARBOR, IND.<br>TOTAL, 27 AND LESS - - - - -                            | 62                      |        | 20                 | INBOUND<br>37              |        | 169   | 62                      |        | 20                 | OUTBOUND<br>75             |        | 157   |
| GARY HARBOR, IND.<br>TOTAL, 28 AND LESS - - - - -                                  | 281                     |        | 12                 | INBOUND<br>270             |        | 563   | 280                     |        | 12                 | OUTBOUND<br>275            |        | 567   |



## DETROIT, MICH., DISTRICT

75

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY   | DIRECTION               |        |                    |                            |        |                         | DIRECTION |                        |                    |           |                            |   |        |        |
|--|-------------------------|--------|--------------------|----------------------------|--------|-------------------------|-----------|------------------------|--------------------|-----------|----------------------------|---|--------|--------|
|  | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |                         | TOTAL     | SELF PROPELLED VESSELS |                    |           | NON-SELF PROPELLED VESSELS |   |        | TOTAL  |
|  | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | PASSENGER AND DRY CARGO |           | TANKER                 | TOWBOAT OR TUGBOAT | DRY CARGO | TANKER                     |   |        |        |
| DRAFT (FEET)   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| PRESQUE ISLE HARBOR, MICH.   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 28   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 27   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 26   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 25   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 24   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 23   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 22   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 21   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 20   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 19   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 18   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 17   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 16   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 12 AND LESS  |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| TOTAL  | 324                     | 7      |                    |                            |        |                         | 331       | 322                    | 7                  |           |                            |   |        | 329    |
| ST. MARYS RIVER, MICH.   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 30   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 29   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 28   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 27   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 26   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 25   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 24   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 23   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 22   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 21   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 20   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 19   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 18   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 17   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 16   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 15   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 14   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 13   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 12 AND LESS  |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| TOTAL  | 25,147                  | 44     | 40                 | 38                         | 2      |                         | 25,291    | 24,833                 | 40                 | 38        | 56                         | 2 | 24,969 |        |
| ST. MARYS FALLS CANAL, MICHIGAN AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CANADA |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 28   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 27   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 26   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 25   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 24   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 23   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 22   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 21   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 20   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 19   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 18   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 17   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 16   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 15   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 14   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 13   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 12 AND LESS  |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| TOTAL  | 2,583                   | 26     | 14                 | 93                         | 2      |                         | 2,698     | 2,932                  | 26                 | 36        | 54                         | 2 | 3,050  |        |
| DRUMMOND ISLAND, MICH.   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 25   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 24   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 23   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 22   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 21   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 20   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 19   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 18   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 17   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 16   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 15   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 14   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 12 AND LESS  |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| TOTAL  | 10,425                  |        |                    |                            |        |                         | 10,425    | 10,495                 |                    |           |                            |   |        | 10,425 |
| TOTAL  | 10,506                  |        |                    |                            |        |                         | 10,513    | 10,511                 |                    |           |                            |   |        | 10,520 |
| GRAYS REEF PASSAGE, MICH.  |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 25   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 24   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 23   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 22   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 21   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 20   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 19   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 18   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |
| 17   |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |   |        |        |

## DETROIT, MICH., DISTRICT

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY                        | DIRECTION               |        |                    |                            |        |       | DIRECTION               |        |                    |                            |        |       |
|---|-------------------------|--------|--------------------|----------------------------|--------|-------|-------------------------|--------|--------------------|----------------------------|--------|-------|
|   | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |       | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |       |
|   | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL |
| GRAYS REEF PASSAGE, MICH.--(CONTINUED)    |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 16 - - - - -                              | 64                      | 3      | 41                 | NORTHBOUND                 |        |       |                         |        | 2                  | SOUTHBOUND                 |        |       |
| 15 - - - - -                              | 19                      | 1      | 14                 | 1                          |        | 109   |                         |        |                    |                            |        | 2     |
| 14 - - - - -                              | 61                      | 1      | 6                  | 2                          |        | 32    |                         |        |                    |                            |        |       |
| 13 - - - - -                              | 42                      |        | 5                  |                            | 3      | 71    | 19                      |        |                    |                            |        | 15    |
| 12 AND LESS- - - - -                      | 26                      | 10     | 17                 | 3                          | 48     | 93    |                         |        |                    |                            |        |       |
| TOTAL- - - - -                            | 1,512                   | 105    | 115                | 57                         | 68     | 1,857 | 187                     | 3      | 2                  |                            | 4      | 196   |
| TRAVERSE CITY HARBOR, MICH.               |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 19 - - - - -                              | 3                       | 46     |                    | INBOUND                    |        |       |                         |        |                    | OUTBOUND                   |        |       |
| 18 - - - - -                              |                         |        |                    |                            |        | 49    | 1                       | 16     |                    |                            |        | 17    |
| 17 - - - - -                              |                         |        |                    |                            |        |       | 1                       | 10     |                    |                            |        | 11    |
| 16 - - - - -                              |                         |        |                    |                            |        |       | 1                       | 8      |                    |                            |        | 9     |
| 15 - - - - -                              |                         |        |                    |                            |        |       |                         | 6      |                    |                            |        | 6     |
| 12 AND LESS- - - - -                      |                         |        |                    |                            |        |       |                         | 5      |                    |                            |        | 5     |
| TOTAL- - - - -                            | 3                       | 46     |                    |                            |        | 49    | 3                       | 46     |                    |                            |        | 49    |
| FRANKFORT HARBOR, MICH.                   |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 20 - - - - -                              |                         | 3      |                    | INBOUND                    |        |       |                         |        |                    | OUTBOUND                   |        |       |
| 18 - - - - -                              | 156                     |        |                    |                            |        | 3     |                         |        |                    |                            |        |       |
| 17 - - - - -                              | 608                     |        |                    |                            | 5      | 156   | 156                     |        |                    |                            |        | 156   |
| 16 - - - - -                              |                         |        | 5                  |                            |        | 613   | 603                     |        |                    |                            |        | 603   |
| 15 - - - - -                              | 138                     |        |                    |                            |        | 5     |                         |        | 9                  |                            |        | 9     |
| 12 AND LESS- - - - -                      |                         |        |                    |                            | 1      | 138   | 131                     | 3      |                    |                            | 5      | 131   |
| TOTAL- - - - -                            | 902                     | 3      | 5                  |                            | 6      | 916   | 890                     | 3      | 9                  |                            | 5      | 907   |
| LUDINGTON HARBOR, MICH.                   |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 23 - - - - -                              | 23                      |        |                    | INBOUND                    |        |       |                         |        |                    | OUTBOUND                   |        |       |
| 22 - - - - -                              | 5                       |        |                    |                            |        | 23    | 9                       |        |                    |                            |        | 9     |
| 21 - - - - -                              | 2                       |        |                    |                            |        | 9     | 14                      |        |                    |                            |        | 14    |
| 20 - - - - -                              | 814                     |        |                    |                            |        | 2     | 3                       |        |                    |                            |        | 3     |
| 19 - - - - -                              | 3                       |        |                    |                            |        | 814   | 818                     |        |                    |                            |        | 818   |
| 18 - - - - -                              | 3                       |        |                    |                            |        | 3     | 9                       |        |                    |                            |        | 9     |
| 17 - - - - -                              | 1                       |        |                    |                            |        | 3     | 7                       | 1      |                    |                            |        | 8     |
| 16 - - - - -                              | 2                       |        |                    |                            |        | 1     | 5                       |        |                    |                            |        | 5     |
| 15 - - - - -                              | 10                      |        | 35                 |                            |        | 37    |                         |        | 21                 |                            |        | 22    |
| 14 - - - - -                              | 10                      |        | 30                 |                            |        | 40    | 3                       |        | 34                 |                            | 3      | 40    |
| 13 - - - - -                              | 2                       |        | 31                 |                            |        | 10    | 3                       |        |                    |                            | 8      | 11    |
| 12 AND LESS- - - - -                      | 10                      | 1      |                    | 1                          | 74     | 33    |                         |        | 39                 |                            | 42     | 81    |
| TOTAL- - - - -                            | 885                     | 1      | 96                 | 1                          | 74     | 1,057 | 882                     | 1      | 98                 | 1                          | 83     | 1,065 |
| MUSKEGON HARBOR, MICH.                    |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 26 - - - - -                              | 1                       |        |                    | INBOUND                    |        |       |                         |        |                    | OUTBOUND                   |        |       |
| 25 - - - - -                              | 2                       |        |                    |                            |        | 1     |                         |        |                    |                            |        |       |
| 24 - - - - -                              | 8                       |        |                    |                            |        | 2     |                         |        |                    |                            |        |       |
| 23 - - - - -                              | 20                      |        |                    |                            |        | 8     |                         |        |                    |                            |        |       |
| 22 - - - - -                              | 33                      | 2      |                    |                            |        | 20    | 2                       |        |                    |                            |        | 2     |
| 21 - - - - -                              | 22                      | 3      |                    |                            |        | 35    | 1                       |        |                    |                            |        | 1     |
| 20 - - - - -                              | 12                      | 1      |                    |                            |        | 25    | 10                      | 1      |                    |                            |        | 11    |
| 19 - - - - -                              | 3                       |        |                    |                            |        | 13    | 22                      | 2      |                    |                            |        | 24    |
| 18 - - - - -                              | 1                       |        |                    |                            |        | 3     | 28                      | 2      |                    |                            |        | 30    |
| 17 - - - - -                              | 3                       |        |                    |                            |        | 1     | 19                      |        |                    |                            |        | 19    |
| 16 - - - - -                              |                         |        |                    |                            |        | 3     | 10                      | 1      |                    |                            |        | 11    |
| 15 - - - - -                              |                         |        |                    |                            |        | 2     | 9                       |        |                    |                            |        | 9     |
| 14 - - - - -                              |                         |        | 2                  |                            |        | 1     | 1                       |        |                    |                            |        | 1     |
| 13 - - - - -                              | 1                       |        |                    |                            | 1      | 2     | 1                       |        |                    |                            |        | 2     |
| 12 AND LESS- - - - -                      | 132                     |        | 11                 | 1                          | 8      | 152   | 133                     |        | 4                  | 1                          | 8      | 146   |
| TOTAL- - - - -                            | 238                     | 6      | 13                 | 1                          | 9      | 267   | 236                     | 6      | 4                  | 1                          | 8      | 255   |
| GRAND HAVEN HARBOR AND GRAND RIVER, MICH. |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 25 - - - - -                              |                         |        |                    | INBOUND                    |        |       |                         |        |                    | OUTBOUND                   |        |       |
| 24 - - - - -                              |                         |        |                    |                            |        | 1     | 1                       |        |                    |                            |        | 1     |
| 23 - - - - -                              | 10                      |        |                    |                            |        | 1     | 11                      |        |                    |                            |        | 11    |
| 22 - - - - -                              | 2                       |        |                    |                            |        | 2     | 11                      |        |                    |                            |        | 11    |
| 21 - - - - -                              | 8                       |        |                    |                            |        | 8     | 2                       |        |                    |                            |        | 2     |
| 20 - - - - -                              | 16                      |        |                    |                            |        | 16    | 2                       |        |                    |                            |        | 2     |
| 19 - - - - -                              | 8                       |        |                    |                            |        | 8     | 1                       |        |                    |                            |        | 1     |
| 18 - - - - -                              | 2                       |        |                    |                            |        | 2     | 20                      |        |                    |                            |        | 20    |
| 17 - - - - -                              | 1                       |        |                    |                            |        | 1     |                         |        |                    |                            |        |       |
| 16 - - - - -                              |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 15 - - - - -                              |                         |        |                    |                            |        |       | 3                       |        |                    |                            |        | 3     |
| 14 - - - - -                              | 7                       |        |                    |                            |        | 7     | 3                       |        |                    |                            |        | 3     |
| TOTAL- - - - -                            | 94                      |        |                    |                            |        | 94    | 96                      |        |                    |                            |        | 96    |
| HOLLAND HARBOR, MICH.                     |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 25 - - - - -                              |                         |        |                    | INBOUND                    |        |       |                         |        |                    | OUTBOUND                   |        |       |
| 24 - - - - -                              |                         |        |                    | 1                          |        | 1     |                         |        |                    |                            |        |       |
| 23 - - - - -                              |                         |        |                    | 1                          |        | 1     |                         |        |                    |                            |        |       |
| 22 - - - - -                              | 3                       |        |                    |                            |        | 3     | 2                       |        |                    |                            |        | 2     |
| 21 - - - - -                              | 14                      |        |                    |                            |        | 14    | 5                       |        |                    | 1                          |        | 6     |
| 20 - - - - -                              | 7                       |        |                    |                            |        | 7     | 4                       |        |                    |                            |        | 4     |
| 19 - - - - -                              | 7                       |        |                    |                            |        | 7     | 1                       |        |                    |                            |        | 1     |
| 18 - - - - -                              | 2                       |        |                    |                            |        | 2     | 9                       |        |                    |                            |        | 9     |

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY                 | DIRECTION               |        |                    |                            |        | TOTAL  | DIRECTION               |        |                    |                            |        | TOTAL  |
|------------------------------------|-------------------------|--------|--------------------|----------------------------|--------|--------|-------------------------|--------|--------------------|----------------------------|--------|--------|
|                                    | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |        | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |        |
|                                    | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |        | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |        |
| DRAFT (FEET)                       |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| HOLLAND HARBOR, MICH.--(CONTINUED) |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 17                                 | 3                       |        |                    | INBOUND                    |        | 3      | 4                       |        |                    | OUTBOUND                   |        | 4      |
| 16                                 | 2                       |        |                    |                            |        | 2      | 4                       |        |                    |                            |        | 4      |
| 14                                 | 1                       |        | 1                  |                            |        | 2      | 4                       |        | 1                  |                            |        | 5      |
| 12                                 |                         |        | 1                  |                            |        | 1      |                         |        | 1                  | 1                          |        | 1      |
| 9                                  |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| TOTAL                              | 39                      |        | 2                  | 2                          |        | 43     | 33                      |        | 2                  | 3                          |        | 38     |
| ST. JOSEPH HARBOR, MICH.           |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 24                                 | 1                       |        |                    | INBOUND                    |        | 1      |                         |        |                    | OUTBOUND                   |        |        |
| 22                                 | 14                      |        |                    |                            |        | 14     |                         |        |                    |                            |        |        |
| 21                                 | 15                      |        |                    | 2                          |        | 17     |                         |        |                    |                            |        |        |
| 20                                 | 9                       |        |                    |                            |        | 11     |                         |        |                    |                            |        |        |
| 19                                 | 2                       | 2      |                    |                            |        | 2      | 6                       | 1      |                    |                            |        | 7      |
| 18                                 | 1                       |        |                    |                            |        | 1      | 6                       |        |                    |                            |        | 6      |
| 17                                 |                         |        |                    |                            |        |        | 4                       |        |                    | 1                          |        | 5      |
| 16                                 |                         |        | 8                  |                            |        | 8      | 5                       |        | 6                  |                            |        | 13     |
| 15                                 |                         |        | 5                  |                            |        | 5      | 5                       | 1      | 5                  | 2                          |        | 11     |
| 14                                 |                         |        | 2                  |                            |        | 2      | 11                      |        | 2                  |                            |        | 13     |
| 13                                 |                         |        | 10                 |                            |        | 10     | 2                       |        | 4                  |                            |        | 6      |
| 12 AND LESS                        | 1                       |        | 19                 |                            | 27     | 47     | 5                       |        | 16                 |                            | 27     | 48     |
| TOTAL                              | 43                      | 2      | 44                 | 2                          | 27     | 118    | 44                      | 2      | 33                 | 2                          | 28     | 109    |
| ALPENA HARBOR, MICH.               |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 23                                 | 6                       |        |                    | INBOUND                    |        | 6      | 65                      |        |                    | OUTBOUND                   |        | 65     |
| 22                                 | 14                      |        |                    |                            |        | 14     | 86                      |        |                    |                            |        | 86     |
| 21                                 | 16                      |        |                    |                            |        | 16     | 75                      |        |                    |                            |        | 75     |
| 20                                 | 11                      |        |                    |                            |        | 11     | 16                      |        |                    |                            |        | 16     |
| 19                                 | 8                       |        |                    |                            |        | 8      | 5                       |        |                    |                            |        | 5      |
| 18                                 | 1                       |        |                    |                            |        | 1      | 10                      |        |                    |                            |        | 10     |
| 17                                 | 58                      |        |                    |                            |        | 58     | 1                       |        |                    |                            |        | 1      |
| 16                                 | 3                       |        | 2                  |                            | 1      | 6      | 1                       |        | 6                  |                            |        | 7      |
| 15                                 |                         |        | 2                  |                            |        | 2      | 25                      |        | 2                  |                            |        | 27     |
| 14                                 | 3                       |        |                    |                            |        | 3      | 16                      |        |                    |                            |        | 16     |
| 13                                 | 67                      |        |                    |                            | 1      | 68     |                         |        |                    |                            |        |        |
| 12 AND LESS                        | 208                     |        |                    |                            | 4      | 212    | 94                      |        |                    |                            | 5      | 99     |
| TOTAL                              | 395                     |        | 4                  |                            | 6      | 405    | 394                     |        | 8                  |                            | 5      | 407    |
| SAGINAW RIVER, MICH.               |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 25                                 | 4                       |        |                    | INBOUND                    |        | 4      |                         | 2      |                    | OUTBOUND                   |        | 2      |
| 24                                 | 12                      |        |                    |                            |        | 12     | 1                       |        |                    |                            |        | 1      |
| 23                                 | 49                      | 4      |                    |                            |        | 53     | 3                       | 4      |                    |                            |        | 7      |
| 22                                 | 47                      | 3      |                    |                            |        | 50     | 8                       | 5      |                    |                            |        | 13     |
| 21                                 | 15                      | 8      |                    |                            |        | 23     | 7                       | 7      |                    | 1                          |        | 15     |
| 20                                 | 28                      | 4      |                    |                            |        | 24     | 11                      | 4      |                    |                            |        | 15     |
| 19                                 | 7                       | 12     |                    |                            |        | 19     | 22                      | 6      |                    |                            |        | 28     |
| 18                                 | 15                      | 8      |                    |                            |        | 23     | 31                      | 2      |                    |                            |        | 33     |
| 17                                 | 74                      |        |                    |                            |        | 74     | 92                      |        |                    |                            |        | 92     |
| 16                                 | 6                       |        |                    |                            |        | 6      | 29                      | 7      | 2                  |                            |        | 38     |
| 15                                 |                         | 1      | 3                  |                            |        | 4      | 32                      |        | 3                  |                            |        | 35     |
| 14                                 | 1                       |        |                    |                            |        | 1      | 13                      |        |                    |                            |        | 13     |
| 13                                 | 1                       |        | 4                  |                            | 1      | 6      |                         |        |                    |                            |        |        |
| 12 AND LESS                        | 99                      | 3      | 2                  |                            | 9      | 113    | 105                     | 7      | 3                  | 1                          | 9      | 125    |
| TOTAL                              | 350                     | 43     | 9                  |                            | 10     | 412    | 394                     | 44     | 8                  | 2                          | 9      | 417    |
| ST. CLAIR RIVER, MICH.             |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 29                                 | 5                       |        |                    | UPBOUND                    |        | 5      | 16                      |        |                    | DOWNBOUND                  |        | 16     |
| 28                                 | 57                      |        |                    | 3                          |        | 60     | 189                     |        |                    | 4                          |        | 193    |
| 27                                 | 52                      |        |                    | 1                          |        | 53     | 675                     |        |                    | 2                          |        | 677    |
| 26                                 | 114                     |        | 3                  |                            |        | 117    | 898                     |        | 4                  |                            |        | 902    |
| 25                                 | 39                      |        |                    |                            |        | 39     | 216                     |        |                    |                            |        | 216    |
| 24                                 | 147                     |        |                    |                            |        | 151    | 178                     |        |                    |                            |        | 183    |
| 23                                 | 339                     | 9      |                    | 3                          | 4      | 351    | 378                     | 2      |                    | 1                          | 5      | 381    |
| 22                                 | 245                     | 7      |                    |                            |        | 252    | 336                     | 2      |                    |                            |        | 338    |
| 21                                 | 326                     | 5      |                    | 1                          |        | 332    | 199                     | 1      |                    |                            |        | 200    |
| 20                                 | 528                     | 8      |                    |                            |        | 528    | 113                     | 8      |                    | 3                          |        | 124    |
| 19                                 | 469                     | 17     |                    | 1                          | 2      | 489    | 78                      | 7      |                    | 4                          |        | 89     |
| 18                                 | 557                     | 4      |                    |                            | 1      | 562    | 42                      | 5      |                    |                            |        | 48     |
| 17                                 | 416                     |        | 5                  | 1                          | 25     | 447    | 20                      |        | 5                  | 2                          | 10     | 37     |
| 16                                 | 173                     |        | 80                 | 4                          |        | 257    | 14                      | 3      | 79                 | 1                          |        | 97     |
| 15                                 | 39                      | 2      | 67                 |                            | 2      | 110    | 13                      | 4      | 100                |                            |        | 117    |
| 14                                 | 58                      |        | 7                  |                            | 5      | 70     | 16                      |        |                    |                            |        | 25     |
| 13                                 | 26                      |        |                    |                            | 3      | 29     | 3                       |        |                    |                            |        | 4      |
| 12 AND LESS                        | 24,186                  | 12     | 221                | 1                          | 350    | 24,770 | 24,126                  | 29     | 210                |                            | 366    | 24,731 |
| TOTAL                              | 27,768                  | 64     | 383                | 15                         | 392    | 28,622 | 27,510                  | 61     | 406                | 17                         | 384    | 28,378 |
| PORT HURON, MICH.                  |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 30                                 | 1                       |        |                    | INBOUND                    |        | 1      |                         |        |                    | OUTBOUND                   |        |        |
| 28                                 | 4                       |        |                    |                            |        | 4      | 5                       |        |                    |                            |        | 5      |
| 25                                 | 1                       |        |                    |                            |        | 1      |                         |        |                    |                            |        |        |
| 24                                 | 2                       |        |                    |                            |        | 2      | 1                       |        |                    |                            |        | 1      |
| 23                                 | 4                       |        |                    |                            |        | 4      |                         |        |                    |                            |        |        |
| 22                                 | 3                       |        |                    |                            |        | 3      | 1                       |        |                    |                            |        | 1      |
| 21                                 | 2                       |        |                    |                            |        | 2      |                         |        |                    |                            |        |        |
| 20                                 | 1                       |        |                    |                            |        | 1      |                         |        |                    |                            |        |        |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

## DETROIT, MICH., DISTRICT

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY             | DIRECTION               |        |                    |                            |        |        | DIRECTION               |        |                    |                            |        |        |
|--------------------------------|-------------------------|--------|--------------------|----------------------------|--------|--------|-------------------------|--------|--------------------|----------------------------|--------|--------|
|                                | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |        | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |        |
|                                | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL  | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL  |
| PORT HURON, MICH.--(CONTINUED) |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 10                             |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 17                             | 1                       |        |                    |                            |        | 1      | 1                       |        |                    |                            |        | 1      |
| 16                             |                         |        |                    |                            |        |        | 2                       |        |                    |                            |        | 2      |
| 15                             |                         |        |                    |                            |        |        | 2                       |        |                    |                            |        | 3      |
| 14                             |                         |        |                    |                            |        |        | 8                       | 1      |                    |                            |        | 10     |
| 13                             |                         |        |                    |                            |        |        | 9                       |        | 1                  | 1                          |        | 11     |
| 12 AND LESS                    | 23,711                  |        |                    | 4                          | 7      | 23,729 | 23,711                  |        | 7                  | 4                          | 6      | 23,728 |
| TOTAL                          | 23,738                  |        | 17                 | 5                          | 7      | 23,759 | 23,731                  | 1      | 9                  | 5                          | 6      | 23,752 |
| MARYSVILLE, MICH.              |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 26                             |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 25                             | 3                       |        |                    |                            |        | 3      | 1                       |        |                    |                            |        | 1      |
| 24                             | 4                       |        |                    |                            |        | 4      |                         |        |                    |                            |        | 4      |
| 23                             | 4                       |        |                    |                            |        | 4      |                         |        |                    |                            |        |        |
| 22                             | 9                       |        |                    |                            |        | 9      |                         |        |                    |                            |        |        |
| 21                             | 4                       |        |                    |                            |        | 4      | 1                       |        |                    |                            |        | 1      |
| 20                             | 2                       |        |                    |                            |        | 2      |                         | 3      |                    |                            |        | 3      |
| 19                             | 1                       |        |                    |                            |        | 1      |                         |        |                    |                            |        |        |
| 18                             | 1                       |        |                    |                            |        | 1      |                         |        |                    |                            |        |        |
| 17                             | 1                       |        |                    |                            |        | 1      |                         |        |                    |                            |        |        |
| 16                             |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 15                             |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 14                             |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 13                             |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 12 AND LESS                    | 6                       | 3      | 310                |                            |        | 443    | 9                       |        | 264                |                            |        | 447    |
| TOTAL                          | 32                      | 3      | 441                |                            |        | 943    | 35                      | 3      | 451                |                            |        | 952    |
| ST. CLAIR, MICH.               |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 27                             | 94                      |        |                    |                            |        | 94     | 2                       |        |                    |                            |        | 4      |
| 26                             | 1                       |        |                    |                            |        | 1      |                         |        |                    |                            |        |        |
| 25                             | 4                       |        |                    |                            |        | 4      | 1                       |        |                    |                            |        | 1      |
| 24                             | 2                       |        |                    |                            |        | 2      |                         |        |                    |                            |        |        |
| 23                             | 3                       |        |                    |                            |        | 3      | 3                       |        |                    |                            |        | 3      |
| 22                             | 6                       |        |                    |                            |        | 6      |                         |        |                    |                            |        |        |
| 21                             | 4                       |        |                    |                            |        | 4      | 2                       |        |                    |                            |        | 2      |
| 20                             | 4                       |        |                    |                            |        | 4      | 33                      |        |                    |                            |        | 33     |
| 19                             |                         |        |                    |                            |        |        | 7                       |        |                    |                            |        | 7      |
| 18                             |                         |        |                    |                            |        |        | 10                      |        |                    |                            |        | 10     |
| 17                             |                         |        |                    |                            |        |        | 12                      |        |                    |                            |        | 12     |
| 16                             |                         |        |                    |                            |        |        | 6                       |        | 7                  |                            |        | 13     |
| 15                             |                         |        |                    |                            |        |        | 8                       |        | 6                  | 1                          |        | 8      |
| 14                             |                         |        |                    |                            |        |        | 1                       |        | 24                 |                            |        | 25     |
| 13                             |                         |        |                    |                            |        |        | 1                       |        |                    |                            |        |        |
| 12 AND LESS                    | 4                       |        | 71                 | 1                          | 110    | 165    | 4                       |        | 79                 |                            | 119    | 202    |
| TOTAL                          | 82                      |        | 100                | 2                          | 113    | 297    | 82                      |        | 116                | 3                          | 119    | 320    |
| MARINE CITY, MICH.             |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 26                             | 4                       |        |                    |                            |        | 4      |                         |        |                    |                            |        |        |
| 24                             | 6                       |        |                    |                            |        | 6      |                         |        |                    |                            |        |        |
| 23                             | 2                       |        |                    |                            |        | 2      |                         |        |                    |                            |        |        |
| 22                             | 1                       |        |                    |                            |        | 1      |                         |        |                    |                            |        |        |
| 21                             | 3                       |        |                    |                            |        | 3      |                         |        |                    |                            |        |        |
| 20                             | 3                       |        |                    |                            |        | 3      | 2                       |        |                    |                            |        | 2      |
| 18                             |                         |        |                    |                            |        |        | 19                      |        |                    |                            |        | 19     |
| 14                             |                         |        |                    |                            |        |        | 2                       |        |                    |                            |        | 2      |
| 7                              | 14,159                  |        |                    |                            |        | 14,159 | 14,159                  |        |                    |                            |        | 14,159 |
| TOTAL                          | 14,178                  |        |                    |                            |        | 14,178 | 14,178                  |        |                    |                            |        | 14,178 |
| CHANNELS IN LAKE ST. CLAIR     |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 28                             | 60                      |        |                    |                            |        | 61     | 191                     |        |                    |                            |        | 194    |
| 27                             | 92                      |        |                    |                            |        | 93     | 634                     |        |                    |                            |        | 636    |
| 26                             | 114                     |        |                    |                            |        | 117    | 887                     |        |                    |                            |        | 891    |
| 25                             | 38                      |        |                    |                            |        | 38     | 211                     |        |                    |                            |        | 211    |
| 24                             | 146                     |        |                    |                            |        | 150    | 169                     |        |                    |                            |        | 178    |
| 23                             | 328                     |        |                    |                            |        | 338    | 367                     |        |                    |                            |        | 370    |
| 22                             | 239                     |        |                    |                            |        | 244    | 328                     |        |                    |                            |        | 330    |
| 21                             | 321                     |        |                    |                            |        | 322    | 186                     |        |                    |                            |        | 186    |
| 20                             | 485                     |        |                    |                            |        | 490    | 106                     |        |                    |                            |        | 115    |
| 19                             | 499                     |        |                    |                            |        | 474    | 79                      |        |                    |                            |        | 44     |
| 18                             | 528                     |        |                    |                            |        | 530    | 42                      |        |                    |                            |        | 43     |
| 17                             | 403                     |        |                    |                            |        | 425    | 18                      |        |                    |                            |        | 35     |
| 16                             | 170                     |        |                    |                            |        | 209    | 9                       |        |                    |                            |        | 38     |
| 15                             | 39                      |        |                    |                            |        | 80     | 13                      |        |                    |                            |        | 95     |
| 14                             | 57                      |        |                    |                            |        | 64     | 16                      |        |                    |                            |        | 29     |
| 13                             | 26                      |        |                    |                            |        | 28     | 3                       |        |                    |                            |        | 4      |
| 12 AND LESS                    | 86                      |        |                    |                            |        | 277    | 28                      |        |                    |                            |        | 249    |
| TOTAL                          | 3,991                   | 43     | 191                | 13                         | 142    | 3,900  | 3,283                   | 42     | 167                | 15                         | 137    | 3,644  |
| DETROIT RIVER, MICH.           |                         |        |                    |                            |        |        |                         |        |                    |                            |        |        |
| 29                             | 5                       |        |                    |                            |        | 5      | 16                      |        |                    |                            |        | 16     |
| 28                             | 55                      |        |                    |                            |        | 56     | 175                     |        |                    |                            |        | 178    |
| 27                             | 93                      |        |                    |                            |        | 94     | 639                     |        |                    |                            |        | 637    |
| 26                             | 146                     |        |                    |                            |        | 149    | 903                     |        |                    |                            |        | 907    |
| 25                             | 46                      |        |                    |                            |        | 46     | 211                     |        |                    |                            |        | 211    |

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY                | DIRECTION               |        |                    |                            |        |       | DIRECTION               |        |                    |                            |        |       |
|-----------------------------------|-------------------------|--------|--------------------|----------------------------|--------|-------|-------------------------|--------|--------------------|----------------------------|--------|-------|
|                                   | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |       | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |       |
|                                   | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | TOTAL |
| DETROIT RIVER, MICH.--(CONTINUED) |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 24 -                              | 185                     |        |                    |                            |        | 185   | 173                     |        |                    |                            |        | 182   |
| 23 -                              | 455                     | 7      |                    | 3                          |        | 465   | 375                     | 3      |                    |                            |        | 379   |
| 22 -                              | 389                     | 6      |                    |                            |        | 371   | 344                     | 2      |                    | 1                          |        | 346   |
| 21 -                              | 391                     |        |                    | 3                          |        | 394   | 190                     |        |                    |                            |        | 190   |
| 20 -                              | 628                     | 4      |                    |                            |        | 624   | 117                     | 14     |                    | 2                          |        | 133   |
| 19 -                              | 532                     | 12     |                    | 2                          | 2      | 548   | 116                     | 6      |                    | 4                          |        | 126   |
| 18 -                              | 558                     | 1      |                    |                            |        | 560   | 85                      |        |                    |                            | 1      | 86    |
| 17 -                              | 418                     |        | 5                  | 1                          | 1      | 441   | 195                     |        | 9                  | 2                          | 12     | 214   |
| 16 -                              | 198                     | 1      | 47                 | 3                          |        | 241   | 98                      |        | 32                 | 2                          |        | 92    |
| 15 -                              | 49                      | 3      | 52                 |                            |        | 104   | 69                      | 2      | 53                 |                            |        | 124   |
| 14 -                              | 164                     |        | 9                  |                            |        | 173   | 131                     |        | 8                  |                            | 2      | 141   |
| 13 -                              | 614                     |        |                    |                            | 3      | 617   | 593                     |        |                    |                            | 2      | 595   |
| 12 AND LESS-                      | 923                     | 21     | 403                | 108                        | 402    | 1,497 | 490                     | 23     | 387                | 187                        | 372    | 1,379 |
| TOTAL-                            | 5,369                   | 55     | 519                | 122                        | 429    | 6,494 | 4,876                   | 58     | 489                | 123                        | 398    | 5,936 |
| DETROIT HARBOR, MICH.             |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 28 -                              | 6                       |        |                    |                            |        | 6     | 2                       |        |                    |                            |        | 2     |
| 27 -                              | 46                      | 1      |                    |                            |        | 47    | 2                       | 1      |                    |                            |        | 3     |
| 26 -                              | 31                      |        |                    |                            |        | 31    | 9                       | 1      |                    |                            |        | 10    |
| 25 -                              | 32                      | 1      |                    |                            |        | 33    | 2                       |        |                    |                            |        | 2     |
| 24 -                              | 44                      | 3      |                    |                            |        | 47    | 5                       | 4      |                    |                            |        | 9     |
| 23 -                              | 71                      | 3      |                    |                            |        | 74    | 11                      |        |                    |                            |        | 11    |
| 22 -                              | 59                      | 1      |                    |                            |        | 56    | 8                       | 1      |                    |                            |        | 9     |
| 21 -                              | 37                      | 1      |                    |                            |        | 38    | 15                      | 1      |                    |                            |        | 16    |
| 20 -                              | 63                      |        |                    | 1                          |        | 63    | 83                      |        |                    |                            |        | 83    |
| 19 -                              | 32                      |        |                    |                            |        | 33    | 45                      |        |                    |                            |        | 45    |
| 18 -                              | 49                      |        |                    |                            |        | 49    | 71                      |        |                    |                            |        | 71    |
| 17 -                              | 27                      | 1      |                    | 2                          | 1      | 31    | 50                      | 1      |                    |                            |        | 51    |
| 16 -                              | 13                      |        | 9                  |                            |        | 18    | 39                      |        | 9                  | 1                          |        | 49    |
| 15 -                              | 9                       |        | 8                  |                            |        | 17    | 24                      |        | 15                 |                            |        | 39    |
| 14 -                              | 4                       |        | 110                |                            |        | 114   | 25                      |        | 109                | 1                          |        | 135   |
| 13 -                              | 586                     |        |                    |                            | 1      | 587   | 595                     |        |                    |                            |        | 595   |
| 12 AND LESS-                      | 16                      | 3      | 369                | 441                        | 43     | 872   | 28                      | 3      | 390                | 446                        | 48     | 915   |
| TOTAL-                            | 1,121                   | 14     | 492                | 444                        | 45     | 2,116 | 1,014                   | 12     | 923                | 446                        | 48     | 2,045 |
| ROUGE RIVER, MICH.                |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 27 -                              | 15                      |        |                    |                            |        | 15    |                         |        |                    |                            |        |       |
| 26 -                              | 102                     |        |                    |                            |        | 102   | 26                      |        |                    |                            | 1      | 27    |
| 25 -                              | 33                      |        |                    |                            |        | 33    | 3                       |        |                    |                            |        | 3     |
| 24 -                              | 46                      | 1      |                    |                            |        | 47    | 4                       | 1      |                    |                            |        | 5     |
| 23 -                              | 87                      |        |                    |                            |        | 87    | 7                       | 1      |                    |                            |        | 9     |
| 22 -                              | 115                     | 1      |                    |                            |        | 116   | 7                       | 1      |                    |                            | 1      | 8     |
| 21 -                              | 46                      |        |                    |                            |        | 46    | 10                      |        |                    |                            |        | 10    |
| 20 -                              | 70                      | 2      |                    |                            |        | 72    | 26                      | 10     |                    |                            |        | 36    |
| 19 -                              | 47                      |        |                    | 1                          |        | 48    | 35                      | 1      |                    |                            |        | 36    |
| 18 -                              | 27                      |        |                    |                            | 1      | 28    | 107                     |        |                    |                            |        | 107   |
| 17 -                              | 14                      |        | 2                  |                            | 11     | 27    | 308                     |        |                    |                            | 13     | 321   |
| 16 -                              | 13                      |        | 32                 | 1                          |        | 46    | 64                      |        | 32                 | 1                          | 1      | 98    |
| 15 -                              | 8                       | 2      | 35                 |                            |        | 42    | 84                      |        | 27                 |                            |        | 111   |
| 14 -                              | 6                       |        | 14                 |                            |        | 20    | 43                      |        | 19                 |                            |        | 58    |
| 13 -                              | 3                       |        |                    |                            | 1      | 4     | 5                       | 1      |                    |                            | 5      | 11    |
| 12 AND LESS-                      | 40                      | 12     | 473                | 234                        | 361    | 1,120 | 39                      | 6      | 437                | 231                        | 366    | 1,079 |
| TOTAL-                            | 669                     | 18     | 556                | 236                        | 374    | 1,893 | 768                     | 21     | 511                | 232                        | 387    | 1,919 |
| ECORSE, MICH.                     |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 27 -                              | 1                       |        |                    |                            |        | 1     |                         |        |                    |                            |        |       |
| 26 -                              | 1                       |        |                    |                            |        | 1     | 6                       |        |                    |                            |        | 6     |
| 25 -                              | 1                       |        |                    |                            |        | 1     |                         |        |                    |                            |        |       |
| 24 -                              | 1                       |        |                    |                            |        | 1     |                         |        |                    |                            |        |       |
| 23 -                              | 2                       |        |                    |                            |        | 2     | 2                       |        |                    |                            |        | 2     |
| 22 -                              | 7                       | 1      |                    |                            |        | 8     | 3                       | 2      |                    |                            |        | 5     |
| 21 -                              | 9                       | 1      |                    | 2                          |        | 12    | 4                       | 1      |                    |                            |        | 5     |
| 20 -                              | 6                       |        |                    |                            |        | 6     | 11                      | 1      |                    |                            |        | 12    |
| 19 -                              | 2                       |        |                    |                            |        | 2     | 4                       | 1      |                    |                            |        | 5     |
| 18 -                              | 3                       |        |                    |                            |        | 3     | 4                       |        |                    |                            |        | 4     |
| 17 -                              | 1                       |        |                    |                            |        | 1     | 2                       |        |                    |                            |        | 2     |
| 16 -                              | 3                       | 1      | 3                  |                            |        | 7     |                         |        | 1                  | 2                          |        | 3     |
| 14 -                              |                         |        | 2                  |                            |        | 2     |                         |        | 3                  |                            |        | 3     |
| 13 -                              | 1                       |        |                    |                            | 1      | 1     |                         |        |                    |                            |        |       |
| 12 AND LESS-                      | 4                       | 2      | 247                |                            | 251    | 504   | 1                       | 3      | 244                |                            | 244    | 492   |
| TOTAL-                            | 48                      | 5      | 252                | 2                          | 252    | 551   | 37                      | 8      | 248                | 2                          | 244    | 539   |
| WYANDOTTE, MICH.                  |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 29 -                              | 1                       |        |                    |                            |        | 1     |                         |        |                    |                            |        |       |
| 28 -                              | 11                      |        |                    |                            |        | 11    | 4                       |        |                    |                            |        | 4     |
| 27 -                              | 4                       |        |                    |                            |        | 4     | 1                       |        |                    |                            |        | 1     |
| 26 -                              | 2                       |        |                    |                            |        | 2     |                         |        |                    |                            |        |       |
| 25 -                              | 8                       |        |                    |                            |        | 8     | 5                       |        |                    |                            |        | 5     |
| 24 -                              | 7                       |        |                    |                            |        | 7     | 2                       |        |                    |                            |        | 2     |
| 23 -                              | 1                       |        |                    |                            |        | 1     | 8                       |        |                    |                            |        | 8     |
| 22 -                              | 2                       |        |                    |                            |        | 2     | 9                       |        |                    |                            |        | 9     |
| 21 -                              |                         |        |                    |                            |        |       | 6                       |        |                    |                            |        | 6     |
| 20 -                              |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 19 -                              |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 18 -                              |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 17 -                              |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 16 -                              |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 15 -                              |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 14 -                              |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 13 -                              |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 12 AND LESS-                      |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| TOTAL-                            | 36                      |        | 5                  |                            | 5      | 46    | 36                      |        | 5                  |                            | 5      | 46    |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1960

## DETROIT, MICH., DISTRICT

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY                        | DRAFT (FEET) | DIRECTION               |        |                    |                            |        | DIRECTION               |        |                    |                            |        |
|---|--------------|-------------------------|--------|--------------------|----------------------------|--------|-------------------------|--------|--------------------|----------------------------|--------|
|   |              | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |
|   |              | PASSENGER AND DRY CARGO | TANKER | TUGBOAT OR TUGBOAT | DRY CARGO                  | TANKER | PASSENGER AND DRY CARGO | TANKER | TUGBOAT OR TUGBOAT | DRY CARGO                  | TANKER |
| TRENTON, MICH.                            |              |                         |        |                    | INBOUND                    |        |                         |        |                    | OUTBOUND                   |        |
| 29 -                                      | 13           |                         |        |                    |                            |        | 13                      |        |                    |                            |        |
| 28 -                                      | 39           |                         |        |                    |                            |        | 39                      |        |                    |                            |        |
| 27 -                                      | 9            |                         |        |                    |                            |        | 9                       |        |                    |                            |        |
| 26 -                                      | 4            |                         |        |                    |                            |        | 4                       |        |                    |                            |        |
| 25 -                                      | 2            |                         |        |                    |                            |        | 2                       |        |                    |                            |        |
| 24 -                                      | 2            |                         |        |                    |                            |        | 2                       |        |                    |                            |        |
| 23 -                                      | 1            |                         |        |                    |                            |        | 1                       |        |                    |                            |        |
| 22 -                                      | 3            |                         |        |                    |                            |        | 3                       |        |                    |                            |        |
| 21 -                                      | 24           |                         |        |                    |                            |        | 24                      |        |                    |                            |        |
| 20 -                                      | 19           |                         |        |                    |                            |        | 19                      |        |                    |                            |        |
| 19 -                                      | 2            |                         |        |                    |                            |        | 2                       |        |                    |                            |        |
| 18 -                                      | 2            |                         |        |                    |                            |        | 2                       |        |                    |                            |        |
| 17 -                                      | 1            |                         |        |                    |                            |        | 1                       |        |                    |                            |        |
| 16 -                                      |              |                         |        |                    |                            |        |                         |        |                    |                            |        |
| 15 -                                      |              |                         |        |                    |                            |        |                         |        |                    |                            |        |
| 14 -                                      |              |                         |        |                    |                            |        |                         |        |                    |                            |        |
| 12 AND LESS -                             |              |                         |        |                    |                            |        |                         |        |                    |                            |        |
| TOTAL -                                   |              | 121                     |        | 3                  | 4                          | 7      | 125                     |        | 3                  | 2                          | 130    |
| PORT OF DETROIT, MICH.                    |              |                         |        |                    | INBOUND                    |        |                         |        |                    | OUTBOUND                   |        |
| 29 -                                      | 13           |                         |        |                    |                            |        | 13                      |        |                    |                            |        |
| 28 -                                      | 49           |                         |        |                    |                            |        | 49                      |        |                    |                            |        |
| 27 -                                      | 67           |                         |        |                    |                            |        | 67                      |        |                    |                            |        |
| 26 -                                      | 137          |                         | 1      |                    |                            |        | 137                     |        |                    | 1                          | 3      |
| 25 -                                      | 68           |                         |        |                    |                            |        | 68                      |        |                    |                            | 3      |
| 24 -                                      | 93           |                         | 1      |                    |                            |        | 93                      |        |                    |                            | 42     |
| 23 -                                      | 171          |                         | 3      |                    |                            |        | 171                     |        |                    |                            | 4      |
| 22 -                                      | 162          |                         | 2      |                    |                            |        | 162                     |        |                    |                            | 15     |
| 21 -                                      | 114          |                         | 2      |                    | 2                          |        | 114                     |        |                    |                            | 25     |
| 20 -                                      | 156          |                         | 2      |                    |                            |        | 156                     |        |                    |                            | 22     |
| 19 -                                      | 74           |                         |        |                    | 2                          |        | 74                      |        |                    |                            | 27     |
| 18 -                                      | 68           |                         |        |                    |                            |        | 68                      |        |                    |                            | 126    |
| 17 -                                      | 37           |                         |        |                    | 1                          |        | 37                      |        |                    |                            | 100    |
| 16 -                                      | 16           |                         | 1      | 2                  | 2                          | 11     | 16                      |        |                    |                            | 211    |
| 15 -                                      | 12           |                         | 2      |                    | 1                          |        | 12                      |        |                    |                            | 399    |
| 14 -                                      | 9            |                         |        |                    |                            |        | 9                       |        |                    |                            | 160    |
| 13 -                                      | 588          |                         |        | 126                |                            |        | 588                     |        |                    |                            | 149    |
| 12 AND LESS -                             | 60           |                         | 16     | 678                | 675                        | 432    | 60                      |        |                    |                            | 198    |
| TOTAL -                                   |              | 1,914                   | 34     | 1,090              | 682                        | 446    | 4,136                   | 1,908  | 48                 | 1,063                      | 2,042  |
| MONROE HARBOR, MICH.                      |              |                         |        |                    | INBOUND                    |        |                         |        |                    | OUTBOUND                   |        |
| 21 -                                      | 66           |                         |        |                    |                            |        | 66                      |        |                    |                            | 2      |
| 20 -                                      | 112          |                         |        |                    |                            |        | 112                     |        |                    |                            | 22     |
| 19 -                                      | 9            |                         |        |                    |                            |        | 9                       |        |                    |                            | 25     |
| 18 -                                      | 5            |                         |        |                    |                            |        | 5                       |        |                    |                            | 40     |
| 17 -                                      |              |                         |        |                    |                            |        |                         |        |                    |                            | 27     |
| 16 -                                      |              |                         |        |                    |                            |        |                         |        |                    |                            | 38     |
| 15 -                                      |              |                         |        |                    |                            |        |                         |        |                    |                            | 32     |
| 14 -                                      |              |                         |        |                    |                            |        |                         |        |                    |                            | 6      |
| 12 -                                      |              |                         |        |                    |                            |        |                         |        |                    |                            | 1      |
| TOTAL -                                   |              | 192                     |        |                    |                            |        | 192                     |        |                    |                            | 193    |
| ALGONAC, MICH.                            |              |                         |        |                    | INBOUND                    |        |                         |        |                    | OUTBOUND                   |        |
| TOTAL, 7 AND LESS -                       |              | 11,394                  |        |                    |                            |        | 11,394                  |        |                    |                            | 11,394 |
| AU SABLE HARBOR AND RIVER (OSCODA), MICH. |              |                         |        |                    | NO VESSEL TRIPS REPORTED   |        |                         |        |                    |                            |        |
| BIG BAY HARBOR, MICH.                     |              |                         |        |                    | NO VESSEL TRIPS REPORTED   |        |                         |        |                    |                            |        |
| BLACK RIVER HARBOR, MICH.                 |              |                         |        |                    | NO VESSEL TRIPS REPORTED   |        |                         |        |                    |                            |        |
| CASEVILLE, MICH.                          |              |                         |        |                    | NO VESSEL TRIPS REPORTED   |        |                         |        |                    |                            |        |
| CEDAR RIVER HARBOR, MICH.                 |              |                         |        |                    | NO VESSEL TRIPS REPORTED   |        |                         |        |                    |                            |        |
| CHARLEVOIX HARBOR, MICH.                  |              |                         |        |                    | INBOUND                    |        |                         |        |                    | OUTBOUND                   |        |
| TOTAL, 19 AND LESS -                      | 239          |                         | 10     |                    | 10                         | 267    | 239                     |        | 10                 | 10                         | 267    |
| CHEBOYGAN HARBOR, MICH.                   |              |                         |        |                    | INBOUND                    |        |                         |        |                    | OUTBOUND                   |        |
| TOTAL, 21 AND LESS -                      | 770          | 23                      | 6      |                    | 5                          | 804    | 770                     | 22     | 6                  | 3                          | 893    |
| DETOUR, MICH., AND VICINITY               |              |                         |        |                    | INBOUND                    |        |                         |        |                    | OUTBOUND                   |        |
| TOTAL, 17 AND LESS -                      | 10,902       |                         |        |                    |                            | 10,902 | 10,499                  |        |                    |                            | 10,499 |
| EAGLE HARBOR, MICH.                       |              |                         |        |                    | NO VESSEL TRIPS REPORTED   |        |                         |        |                    |                            |        |

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY   | DIRECTION               |        |                    |                            |        |        | DIRECTION               |        |                    |                            |        |        |
|--|-------------------------|--------|--------------------|----------------------------|--------|--------|-------------------------|--------|--------------------|----------------------------|--------|--------|
|  | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL  | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL  |
|  | PASSENGER AND DRY CARGO | TANKER | TUGBOAT OR TUGBOAT | DRY CARGO                  | TANKER |        | PASSENGER AND DRY CARGO | TANKER | TUGBOAT OR TUGBOAT | DRY CARGO                  | TANKER |        |
| BLADSTONE HARBOR, MICH.<br>TOTAL, 22 AND LESS - - - - -                                    | 29                      | 14     | 14                 | INBOUND                    | 12     | 69     | 29                      | 14     | 6                  | OUTBOUND                   | 11     | 60     |
| GRAND MARAIS HARBOR<br>(HARBOR OF REFUGE), MICH.<br>TOTAL, 9 AND LESS - - - - -            | 110                     |        |                    | INBOUND                    |        | 110    | 110                     |        |                    | OUTBOUND                   |        | 110    |
| GRAND TRAVERSE BAY HARBOR, MICH.<br>TOTAL, 9 AND LESS - - - - -                            | 42                      |        |                    | INBOUND                    |        | 42     | 42                      |        |                    | OUTBOUND                   |        | 42     |
| HARBOR BEACH, MICH., HARBOR OF<br>REFUGE, LAKE HURON<br>TOTAL, 21 AND LESS - - - - -       | 16                      |        |                    | INBOUND                    |        | 16     | 16                      |        |                    | OUTBOUND                   |        | 16     |
| HARRISVILLE HARBOR, MICH., HARBOR OF<br>REFUGE, LAKE HURON<br>TOTAL, 21 AND LESS - - - - - |                         | 6      |                    | INBOUND                    |        | 6      |                         | 6      |                    | OUTBOUND                   |        | 6      |
| KENESAW WATERWAY, MICH.<br>TOTAL, 22 AND LESS - - - - -                                    | 463                     | 5      | 10                 | EASTBOUND                  | 9      | 488    | 460                     | 4      | 7                  | WESTBOUND                  | 9      | 481    |
| LAC LA BELLE HARBOR, MICH.<br>TOTAL, 9 AND LESS - - - - -                                  | 46                      |        |                    | INBOUND                    |        | 46     | 46                      |        |                    | OUTBOUND                   |        | 46     |
| LELAND HARBOR, MICH.<br>TOTAL, 9 AND LESS - - - - -  | 777                     |        |                    | INBOUND                    |        | 777    | 777                     |        |                    | OUTBOUND                   |        | 777    |
| LIME ISLAND, MICH.<br>TOTAL, 27 AND LESS - - - - -   | 109                     | 3      |                    | INBOUND                    |        | 112    | 106                     | 2      |                    | OUTBOUND                   |        | 108    |
| MACKINAC HARBOR, MICH.<br>TOTAL, 19 AND LESS - - - - -                                     | 5,937                   |        |                    | INBOUND                    |        | 5,937  | 5,937                   |        |                    | OUTBOUND                   |        | 5,937  |
| MACKINAW CITY HARBOR, MICH.<br>TOTAL, 20 AND LESS - - - - -                                | 2,046                   |        | 19                 | INBOUND                    | 23     | 2,088  | 1,923                   |        | 27                 | OUTBOUND                   | 19     | 1,969  |
| MANISTEE HARBOR, MICH.<br>TOTAL, 22 AND LESS - - - - -                                     | 43                      |        |                    | INBOUND                    |        | 43     | 43                      |        |                    | OUTBOUND                   |        | 43     |
| MANISTIQUE HARBOR, MICH.<br>TOTAL, 9 AND LESS - - - - -                                    | 83                      |        |                    | INBOUND                    |        | 83     | 83                      |        |                    | OUTBOUND                   |        | 83     |
| MARQUETTE HARBOR, MICH.<br>TOTAL, 23 AND LESS - - - - -                                    | 194                     | 5      |                    | INBOUND                    |        | 199    | 195                     | 5      |                    | OUTBOUND                   |        | 200    |
| NEW BUFFALO HARBOR, MICH.  | NO VESSEL TRIPS         |        |                    | REPORTED                   |        |        |                         |        |                    |                            |        |        |
| ONTONAGON HARBOR, MICH.<br>TOTAL, 9 AND LESS - - - - -                                     | 8                       |        |                    | INBOUND                    |        | 8      | 8                       |        |                    | OUTBOUND                   |        | 8      |
| PENTWATER HARBOR, MICH.  | NO VESSEL TRIPS         |        |                    | REPORTED                   |        |        |                         |        |                    |                            |        |        |
| PORT SANILAC HARBOR, MICH.   | NO VESSEL TRIPS         |        |                    | REPORTED                   |        |        |                         |        |                    |                            |        |        |
| PUT-IN-BAY HARBOR, OHIO<br>TOTAL, 7 AND LESS - - - - -                                     | 4,291                   |        |                    | INBOUND                    |        | 4,291  | 4,292                   |        |                    | OUTBOUND                   |        | 4,292  |
| ROGERS CITY, MICH.<br>TOTAL, 9 AND LESS - - - - -  | 82                      |        |                    | INBOUND                    |        | 82     | 82                      |        |                    | OUTBOUND                   |        | 82     |
| SAUGATUCK HARBOR AND<br>KALAMAZOO RIVER, MICH.   | NO VESSEL TRIPS         |        |                    | REPORTED                   |        |        |                         |        |                    |                            |        |        |
| SAULT STE. MARIE, MICH.<br>TOTAL, 25 AND LESS - - - - -                                    | 15,059                  | 17     | 26                 | INBOUND                    | 3      | 15,105 | 15,057                  | 14     | 26                 | OUTBOUND                   | 3      | 15,100 |
| SEBEWAING, MICH.<br>TOTAL, 9 AND LESS - - - - -  | 594                     |        |                    | INBOUND                    |        | 594    | 594                     |        |                    | OUTBOUND                   |        | 594    |
| SOUTH HAVEN HARBOR, MICH.  | NO VESSEL TRIPS         |        |                    | REPORTED                   |        |        |                         |        |                    |                            |        |        |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

## DETROIT, MICH., DISTRICT

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY  | DIRECTION               |        |                    |                            |        | DIRECTION |                         |        |                    |                            |        |       |
|---|-------------------------|--------|--------------------|----------------------------|--------|-----------|-------------------------|--------|--------------------|----------------------------|--------|-------|
|   | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL     | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL |
|   | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |           | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |       |
| DRAFT (FEET)  |                         |        |                    |                            |        |           |                         |        |                    |                            |        |       |
| ST. JAMES (BEAVER ISLAND), MICH.<br>TOTAL, 8 AND LESS - - - - -   | 409                     |        | 11                 | INBOUND                    | 10     | 438       | 409                     |        | 11                 | OUTBOUND                   | 18     | 438   |
| WHITE LAKE HARBOR, MICH.  |                         |        | NO VESSEL TRIP     | REPORTED                   |        |           |                         |        |                    |                            |        |       |
| WHITEFISH POINT HARBOR, MICH.                                     |                         |        | NO VESSEL TRIP     | REPORTED                   |        |           |                         |        |                    |                            |        |       |
| ALABASTER, MICH.<br>TOTAL, 22 AND LESS - - - - -                  | 40                      |        |                    | INBOUND                    |        | 40        | 41                      |        |                    | OUTBOUND                   |        | 41    |
| CALCITE, MICH.<br>TOTAL, 27 AND LESS - - - - -                    | 432                     |        | 2                  | INBOUND                    | 1      | 436       | 435                     | 2      | 2                  | OUTBOUND                   | 9      | 449   |
| ESCANABA, MICH.<br>TOTAL, 30 AND LESS - - - - -                   | 442                     | 20     | 2                  | INBOUND                    |        | 464       | 440                     | 23     | 3                  | OUTBOUND                   | 1      | 467   |
| MARBLEHEAD, OHIO<br>TOTAL, 23 AND LESS - - - - -                  | 3,073                   |        | 2                  | INBOUND                    |        | 3,077     | 3,074                   |        | 2                  | OUTBOUND                   | 2      | 3,076 |
| PETOSKEY PENN DIXIE HARBOR, MICH.<br>TOTAL, 22 AND LESS - - - - - | 25                      |        | 0                  | INBOUND                    |        | 41        | 25                      |        | 0                  | OUTBOUND                   | 0      | 41    |
| PORT DOLOMITE, MICH.<br>TOTAL, 28 AND LESS - - - - -              | 182                     |        |                    | INBOUND                    |        | 182       | 181                     |        |                    | OUTBOUND                   |        | 181   |
| PORT GYPSUM, MICH.<br>TOTAL, 22 AND LESS - - - - -                | 27                      |        |                    | INBOUND                    |        | 27        | 26                      |        |                    | OUTBOUND                   |        | 26    |
| PORT INLAND, MICH.<br>TOTAL, 26 AND LESS - - - - -                | 163                     |        | 2                  | INBOUND                    |        | 167       | 166                     |        | 2                  | OUTBOUND                   | 2      | 170   |
| STONEPORT, MICH.<br>TOTAL, 27 AND LESS - - - - -                  | 377                     |        |                    | INBOUND                    |        | 377       | 369                     |        |                    | OUTBOUND                   |        | 369   |



# BUFFALO, N. Y., DISTRICT

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## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY     |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |     |       |  |
|------------------------|-------------------------|--------|--------------------|----------------------------|--------|-------------------------|-----------|------------------------|--------------------|-----------|----------------------------|-----|-------|--|
| DRAFT (FEET)           | DIRECTION               |        |                    |                            |        |                         | DIRECTION |                        |                    |           |                            |     |       |  |
|                        | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |                         | TOTAL     | SELF PROPELLED VESSELS |                    |           | NON-SELF PROPELLED VESSELS |     | TOTAL |  |
|                        | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER | PASSENGER AND DRY CARGO |           | TANKER                 | TOWBOAT OR TUGBOAT | DRY CARGO | TANKER                     |     |       |  |
| TOLEDO HARBOR, OHIO    |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |     |       |  |
| 28                     | 20                      |        |                    | INBOUND                    |        |                         | 20        |                        |                    | OUTBOUND  |                            |     |       |  |
| 27                     | 79                      |        |                    |                            |        |                         | 79        | 1                      |                    |           |                            |     | 1     |  |
| 26                     | 33                      | 3      |                    |                            |        |                         | 36        | 227                    | 1                  |           |                            |     | 228   |  |
| 25                     | 19                      | 1      |                    |                            |        |                         | 20        | 23                     |                    |           |                            |     | 23    |  |
| 24                     | 32                      |        |                    |                            |        |                         | 32        | 64                     |                    |           |                            |     | 65    |  |
| 23                     | 51                      | 2      |                    |                            |        |                         | 53        | 181                    | 4                  |           |                            |     | 185   |  |
| 22                     | 97                      |        |                    |                            |        |                         | 97        | 158                    | 5                  |           |                            | 1   | 163   |  |
| 21                     | 81                      |        |                    |                            |        |                         | 81        | 207                    | 2                  |           |                            |     | 209   |  |
| 20                     | 148                     | 2      |                    |                            |        |                         | 150       | 307                    | 13                 |           |                            |     | 320   |  |
| 19                     | 145                     | 1      |                    |                            |        |                         | 146       | 136                    | 10                 |           |                            |     | 146   |  |
| 18                     | 164                     | 1      |                    |                            |        |                         | 165       | 37                     | 1                  |           |                            |     | 166   |  |
| 17                     | 260                     |        |                    |                            |        |                         | 260       | 32                     | 1                  |           |                            |     | 261   |  |
| 16                     | 96                      | 1      | 19                 |                            |        |                         | 112       | 8                      | 1                  | 12        |                            | 13  | 123   |  |
| 15                     | 116                     |        | 21                 |                            | 2      |                         | 141       | 19                     |                    | 21        |                            |     | 162   |  |
| 14                     | 36                      |        | 1                  |                            |        |                         | 37        | 4                      |                    | 1         |                            |     | 40    |  |
| 13                     | 4                       |        |                    |                            |        |                         | 4         |                        |                    |           |                            |     | 5     |  |
| 12 AND LESS            | 940                     | 33     | 501                | 436                        | 88     |                         | 1,998     | 933                    | 1                  | 504       | 436                        | 98  | 1,992 |  |
| TOTAL                  | 2,319                   | 44     | 538                | 436                        | 90     |                         | 3,427     | 2,368                  | 39                 | 538       | 436                        | 113 | 3,494 |  |
| SANDUSKY HARBOR, OHIO  |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |     |       |  |
| 28                     |                         |        |                    | INBOUND                    |        |                         |           | 126                    |                    |           | OUTBOUND                   |     |       |  |
| 25                     | 1                       |        |                    |                            |        |                         | 1         | 8                      |                    |           |                            |     | 126   |  |
| 24                     | 2                       |        |                    |                            |        |                         | 2         | 21                     |                    |           |                            |     | 8     |  |
| 23                     | 17                      |        |                    |                            |        |                         | 17        | 51                     |                    |           |                            |     | 21    |  |
| 22                     | 40                      |        |                    |                            |        |                         | 40        | 33                     |                    |           |                            |     | 51    |  |
| 21                     | 90                      |        |                    |                            |        |                         | 90        | 22                     |                    |           |                            |     | 33    |  |
| 20                     | 25                      |        |                    |                            |        |                         | 25        | 29                     |                    |           |                            |     | 22    |  |
| 19                     | 20                      |        |                    |                            |        |                         | 20        | 5                      |                    |           |                            |     | 29    |  |
| 18                     | 10                      |        |                    |                            |        |                         | 10        | 8                      |                    |           |                            |     | 5     |  |
| 17                     | 57                      |        |                    |                            |        |                         | 57        | 2                      |                    |           |                            |     | 8     |  |
| 16                     | 38                      |        |                    |                            |        |                         | 38        | 5                      |                    |           |                            |     | 5     |  |
| 15                     | 18                      |        |                    |                            |        |                         | 18        | 8                      |                    |           |                            |     | 2     |  |
| 14                     | 7                       |        |                    |                            |        |                         | 7         | 6                      |                    |           |                            |     | 8     |  |
| 13                     | 2                       |        |                    |                            |        |                         | 2         |                        |                    |           |                            |     | 6     |  |
| 12 AND LESS            | 4,579                   |        |                    |                            |        |                         | 4,579     | 4,610                  |                    |           |                            |     | 4,610 |  |
| TOTAL                  | 4,906                   |        |                    |                            |        |                         | 4,906     | 4,934                  |                    |           |                            |     | 4,934 |  |
| HURON HARBOR, OHIO     |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |     |       |  |
| 25                     | 72                      |        |                    | INBOUND                    |        |                         | 72        | 7                      |                    |           | OUTBOUND                   |     |       |  |
| 24                     | 2                       |        |                    |                            |        |                         | 2         | 14                     |                    |           |                            |     | 7     |  |
| 23                     |                         |        |                    |                            |        |                         |           | 6                      |                    |           |                            |     | 14    |  |
| 22                     | 6                       |        |                    |                            |        |                         | 6         | 4                      |                    |           |                            |     | 6     |  |
| 21                     | 2                       |        |                    |                            |        |                         | 2         | 25                     |                    |           |                            |     | 4     |  |
| 20                     | 1                       |        |                    |                            |        |                         | 1         | 17                     |                    |           |                            |     | 25    |  |
| 19                     | 2                       |        |                    |                            |        |                         | 2         | 21                     |                    |           |                            |     | 17    |  |
| 18                     | 6                       |        |                    |                            |        |                         | 6         | 6                      |                    |           |                            |     | 21    |  |
| 17                     | 7                       |        |                    |                            |        |                         | 7         | 8                      |                    |           |                            |     | 6     |  |
| 16                     | 2                       |        |                    |                            |        |                         | 2         | 9                      |                    |           |                            |     | 8     |  |
| 15                     | 5                       |        |                    |                            |        |                         | 5         | 3                      |                    |           |                            |     | 9     |  |
| 14                     | 13                      |        |                    |                            |        |                         | 13        |                        |                    |           |                            |     | 3     |  |
| 12 AND LESS            | 699                     |        |                    |                            |        |                         | 699       | 696                    |                    |           |                            |     | 696   |  |
| TOTAL                  | 917                     |        |                    |                            |        |                         | 917       | 916                    |                    |           |                            |     | 916   |  |
| LORAIN HARBOR, OHIO    |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |     |       |  |
| 28                     | 22                      |        |                    | INBOUND                    |        |                         | 22        |                        |                    |           | OUTBOUND                   |     |       |  |
| 27                     | 31                      |        |                    |                            |        |                         | 31        | 1                      |                    |           |                            |     | 1     |  |
| 26                     | 123                     |        |                    |                            |        |                         | 123       |                        |                    |           |                            |     |       |  |
| 25                     | 49                      |        |                    |                            |        |                         | 49        |                        |                    |           |                            |     |       |  |
| 24                     | 18                      |        |                    |                            |        |                         | 14        |                        |                    |           |                            |     |       |  |
| 23                     | 34                      | 2      |                    |                            |        |                         | 36        | 45                     |                    |           |                            |     | 45    |  |
| 22                     | 20                      |        |                    |                            |        |                         | 20        | 12                     |                    |           |                            |     | 12    |  |
| 21                     | 4                       | 1      |                    |                            |        |                         | 5         | 2                      |                    |           |                            |     | 3     |  |
| 20                     | 52                      |        |                    |                            |        |                         | 52        | 15                     |                    |           | 1                          |     | 16    |  |
| 19                     | 17                      |        |                    |                            |        |                         | 17        | 51                     | 1                  |           |                            |     | 156   |  |
| 18                     | 5                       | 1      |                    |                            |        | 1                       | 10        | 194                    |                    |           |                            |     | 35    |  |
| 17                     | 5                       |        |                    |                            |        |                         | 5         | 31                     |                    |           |                            |     | 63    |  |
| 16                     | 16                      |        |                    |                            |        |                         | 16        | 34                     |                    |           |                            |     | 51    |  |
| 15                     | 5                       |        |                    |                            |        |                         | 5         | 5                      |                    |           |                            |     | 34    |  |
| 14                     | 5                       |        |                    |                            |        |                         | 5         | 52                     | 1                  |           |                            |     | 5     |  |
| 12 AND LESS            | 604                     |        | 1                  |                            |        |                         | 604       | 4                      |                    |           | 1                          | 1   | 54    |  |
| TOTAL                  | 1,761                   | 4      | 6                  | 1                          | 1      |                         | 1,014     | 1,046                  | 2                  | 6         | 1                          | 2   | 678   |  |
| CLEVELAND HARBOR, OHIO |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |     |       |  |
| 28                     | 3                       |        |                    | INBOUND                    |        |                         | 3         |                        |                    |           | OUTBOUND                   |     |       |  |
| 27                     | 19                      |        |                    |                            |        |                         | 19        | 1                      |                    |           |                            |     | 1     |  |
| 26                     | 131                     |        |                    |                            |        |                         | 131       |                        |                    |           |                            |     |       |  |
| 25                     | 109                     |        |                    |                            |        |                         | 109       | 8                      |                    |           |                            |     | 8     |  |
| 24                     | 29                      |        |                    |                            |        |                         | 29        | 12                     |                    |           |                            |     | 13    |  |
| 23                     | 62                      |        |                    |                            |        |                         | 62        | 19                     |                    |           |                            | 1   | 19    |  |
| 22                     | 176                     | 1      |                    |                            |        |                         | 177       | 35                     |                    |           |                            |     | 35    |  |
| 21                     | 125                     | 3      |                    |                            |        | 3                       | 131       | 82                     | 1                  |           |                            |     | 63    |  |
| 20                     | 77                      |        |                    |                            |        | 1                       | 79        | 44                     |                    |           |                            |     | 45    |  |
| 19                     | 91                      |        |                    |                            |        | 1                       | 90        | 180                    | 5                  |           | 1                          | 2   | 167   |  |
| 18                     | 51                      | 7      |                    |                            |        | 3                       | 61        | 74                     | 3                  |           | 2                          |     | 79    |  |
| 17                     | 42                      |        |                    |                            |        |                         | 42        | 157                    | 1                  |           |                            |     | 158   |  |
|                        | 7                       | 1      |                    |                            |        | 2                       | 10        | 142                    |                    |           |                            |     | 142   |  |

## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

## BUFFALO, N. Y., DISTRICT

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY                  | DIRECTION               |        |                    |                            |        |       | DIRECTION               |        |                    |                            |        |       |
|-------------------------------------|-------------------------|--------|--------------------|----------------------------|--------|-------|-------------------------|--------|--------------------|----------------------------|--------|-------|
|                                     | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL |
|                                     | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |       | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |       |
| CLEVELAND HARBOR, OHIO--(CONTINUED) |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 16 - - - - -                        | 5                       | 1      |                    | 1                          |        | 7     | 72                      | 1      | 2                  | 2                          |        | 77    |
| 15 - - - - -                        | 2                       |        | 3                  | 1                          |        | 6     | 60                      | 2      | 3                  |                            |        | 65    |
| 14 - - - - -                        |                         |        | 12                 | 1                          |        | 13    | 19                      |        | 11                 |                            |        | 30    |
| 13 - - - - -                        |                         |        |                    |                            |        |       | 10                      |        |                    |                            |        | 10    |
| 12 AND LESS - - - - -               | 260                     | 6      | 29                 | 6                          | 31     | 326   | 263                     | 17     | 28                 | 7                          | 28     | 363   |
| TOTAL - - - - -                     | 1,189                   | 27     | 40                 | 17                         | 33     | 1,306 | 1,158                   | 30     | 44                 | 14                         | 29     | 1,275 |
| FAIRPORT HARBOR, OHIO               |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 28 - - - - -                        |                         |        |                    |                            |        |       | 1                       |        |                    |                            |        | 1     |
| 26 - - - - -                        | 21                      |        |                    |                            |        | 21    |                         |        |                    |                            |        |       |
| 25 - - - - -                        | 19                      |        |                    |                            |        | 19    |                         |        |                    |                            |        |       |
| 24 - - - - -                        | 2                       |        |                    |                            |        | 2     | 3                       |        |                    |                            |        | 3     |
| 23 - - - - -                        | 19                      |        |                    |                            |        | 19    | 20                      |        |                    |                            |        | 20    |
| 22 - - - - -                        | 11                      |        |                    |                            |        | 11    | 14                      |        |                    |                            |        | 14    |
| 21 - - - - -                        | 2                       |        |                    |                            |        | 2     | 3                       |        |                    |                            |        | 3     |
| 20 - - - - -                        | 9                       |        |                    |                            |        | 9     | 5                       |        |                    |                            |        | 5     |
| 19 - - - - -                        | 1                       |        |                    |                            |        | 1     | 11                      |        |                    |                            |        | 11    |
| 18 - - - - -                        | 5                       |        |                    |                            |        | 5     | 26                      |        |                    |                            |        | 26    |
| 17 - - - - -                        | 13                      |        |                    |                            |        | 13    | 9                       |        |                    |                            |        | 9     |
| 16 - - - - -                        | 3                       |        |                    |                            |        | 3     | 4                       |        |                    |                            |        | 4     |
| 15 - - - - -                        | 7                       |        |                    |                            |        | 7     | 20                      |        |                    |                            |        | 20    |
| 14 - - - - -                        | 5                       |        |                    |                            |        | 5     | 1                       |        |                    |                            |        | 1     |
| 12 AND LESS - - - - -               | 354                     |        |                    |                            |        | 354   | 355                     |        |                    |                            |        | 355   |
| TOTAL - - - - -                     | 471                     |        |                    |                            |        | 471   | 472                     |        |                    |                            |        | 472   |
| ASHTABULA HARBOR, OHIO              |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 29 - - - - -                        |                         |        |                    |                            |        |       | 22                      |        |                    |                            |        | 22    |
| 28 - - - - -                        | 33                      |        |                    |                            |        | 33    | 37                      |        |                    |                            |        | 37    |
| 27 - - - - -                        | 57                      |        |                    |                            |        | 57    | 29                      |        |                    |                            |        | 29    |
| 26 - - - - -                        | 58                      |        |                    |                            |        | 58    | 47                      |        |                    |                            |        | 47    |
| 25 - - - - -                        | 7                       |        |                    | 12                         |        | 19    | 5                       |        |                    |                            |        | 5     |
| 24 - - - - -                        | 30                      |        |                    | 3                          |        | 33    | 24                      |        |                    |                            |        | 24    |
| 23 - - - - -                        | 93                      |        |                    | 12                         |        | 105   | 27                      |        |                    | 4                          |        | 31    |
| 22 - - - - -                        | 30                      |        |                    | 3                          |        | 33    | 42                      |        |                    |                            |        | 42    |
| 21 - - - - -                        | 29                      |        |                    |                            |        | 29    | 70                      |        |                    | 3                          |        | 73    |
| 20 - - - - -                        | 17                      |        |                    | 1                          |        | 18    | 39                      |        |                    | 13                         |        | 52    |
| 19 - - - - -                        | 16                      |        |                    |                            |        | 16    | 33                      |        |                    |                            |        | 33    |
| 18 - - - - -                        | 18                      |        |                    |                            |        | 18    | 38                      |        |                    |                            |        | 38    |
| 17 - - - - -                        | 16                      |        |                    |                            |        | 16    | 8                       |        |                    |                            |        | 8     |
| 16 - - - - -                        | 14                      |        |                    |                            |        | 14    | 3                       |        |                    | 1                          |        | 4     |
| 15 - - - - -                        | 13                      |        |                    |                            |        | 13    | 17                      |        |                    | 2                          |        | 19    |
| 14 - - - - -                        | 9                       |        | 28                 |                            |        | 37    |                         |        | 20                 | 1                          |        | 21    |
| 13 - - - - -                        | 1                       |        |                    |                            |        | 1     | 1                       |        |                    |                            |        | 1     |
| 12 AND LESS - - - - -               | 211                     |        |                    |                            |        | 211   | 213                     |        | 6                  | 6                          |        | 225   |
| TOTAL - - - - -                     | 652                     |        | 28                 | 31                         |        | 711   | 655                     |        | 26                 | 30                         |        | 711   |
| CONNEAUT HARBOR, OHIO               |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 27 - - - - -                        | 179                     |        |                    |                            |        | 183   | 83                      |        |                    |                            |        | 84    |
| 26 - - - - -                        | 73                      |        | 3                  | 4                          |        | 74    | 97                      |        | 3                  | 1                          |        | 100   |
| 25 - - - - -                        | 11                      |        |                    |                            |        | 11    | 4                       |        |                    |                            |        | 4     |
| 24 - - - - -                        | 20                      |        |                    |                            |        | 20    | 41                      |        |                    |                            |        | 41    |
| 23 - - - - -                        | 141                     |        |                    |                            |        | 141   | 86                      |        |                    | 3                          |        | 89    |
| 22 - - - - -                        | 39                      |        |                    |                            |        | 39    | 29                      |        |                    |                            |        | 29    |
| 21 - - - - -                        | 28                      |        |                    |                            |        | 28    | 47                      |        |                    |                            |        | 47    |
| 20 - - - - -                        | 19                      |        |                    |                            |        | 19    | 94                      |        |                    |                            |        | 94    |
| 19 - - - - -                        | 16                      |        |                    |                            |        | 16    | 53                      |        |                    |                            |        | 53    |
| 18 - - - - -                        | 26                      |        |                    |                            |        | 26    | 42                      |        |                    |                            |        | 42    |
| 17 - - - - -                        | 12                      |        |                    |                            |        | 12    | 7                       |        |                    |                            |        | 7     |
| 16 - - - - -                        | 20                      |        |                    |                            |        | 20    | 14                      |        |                    |                            |        | 14    |
| 15 - - - - -                        | 9                       |        |                    |                            |        | 9     | 1                       |        |                    |                            |        | 1     |
| 14 - - - - -                        | 12                      |        |                    |                            |        | 12    |                         |        |                    |                            |        |       |
| 13 - - - - -                        | 2                       |        |                    |                            |        | 2     |                         |        |                    |                            |        |       |
| 12 AND LESS - - - - -               | 680                     |        |                    |                            |        | 680   | 678                     |        |                    |                            |        | 678   |
| TOTAL - - - - -                     | 1,287                   |        | 3                  | 4                          |        | 1,294 | 1,296                   |        | 3                  | 4                          |        | 1,303 |
| ERIE HARBOR, PA.                    |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 27 - - - - -                        | 1                       |        |                    |                            |        | 1     |                         |        |                    |                            |        |       |
| 26 - - - - -                        | 3                       |        | 2                  |                            |        | 5     | 3                       |        | 1                  |                            |        | 4     |
| 25 - - - - -                        | 3                       |        |                    |                            |        | 3     | 3                       |        |                    |                            |        | 3     |
| 24 - - - - -                        | 2                       |        |                    |                            |        | 2     | 2                       |        |                    |                            |        | 2     |
| 23 - - - - -                        | 3                       | 1      |                    | 2                          |        | 6     | 1                       |        |                    | 1                          |        | 2     |
| 22 - - - - -                        | 6                       |        |                    |                            |        | 6     | 5                       |        |                    |                            |        | 5     |
| 21 - - - - -                        | 12                      |        |                    |                            |        | 12    | 3                       |        |                    |                            |        | 3     |
| 20 - - - - -                        | 9                       |        |                    |                            |        | 9     | 3                       |        |                    |                            |        | 3     |
| 19 - - - - -                        | 4                       |        |                    |                            |        | 4     | 6                       |        |                    |                            |        | 6     |
| 18 - - - - -                        | 2                       |        |                    |                            |        | 2     | 4                       |        |                    |                            |        | 4     |
| 17 - - - - -                        | 4                       |        |                    |                            |        | 4     | 2                       |        |                    |                            |        | 2     |
| 16 - - - - -                        | 3                       |        |                    |                            | 1      | 4     | 2                       |        |                    |                            |        | 2     |
| 15 - - - - -                        | 3                       |        |                    |                            |        | 3     | 20                      |        |                    |                            |        | 20    |
| 14 - - - - -                        | 83                      |        |                    |                            |        | 83    | 83                      |        |                    |                            |        | 83    |
| 12 AND LESS - - - - -               | 1,480                   |        | 2                  | 1                          |        | 1,483 | 1,479                   | 1      | 2                  |                            | 2      | 1,484 |
| TOTAL - - - - -                     | 1,418                   | 1      | 4                  | 3                          | 1      | 1,627 | 1,616                   | 1      | 3                  | 1                          | 2      | 1,623 |

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WATERBORNE COMMERCE OF THE UNITED STATES CALENDAR YEAR  
1980 PART 3 WATERW..(U) CORPS OF ENGINEERS FORT BELVOIR  
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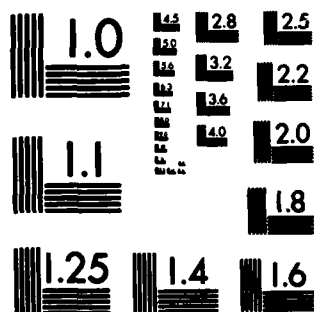
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## WATERBORNE COMMERCE OF THE UNITED STATES, 1980

## BUFFALO, N. Y., DISTRICT

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY                  | DIRECTION               |        |                    |                            |        |       | DIRECTION               |        |                    |                            |        |       |
|-------------------------------------|-------------------------|--------|--------------------|----------------------------|--------|-------|-------------------------|--------|--------------------|----------------------------|--------|-------|
|                                     | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        | TOTAL |
|                                     | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |       | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT | DRY CARGO                  | TANKER |       |
| CLEVELAND HARBOR, OHIO--(CONTINUED) |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 16 - - - - -                        | 5                       | 1      |                    | INBOUND                    |        | 7     | 72                      | 1      | 2                  | OUTBOUND                   |        | 77    |
| 15 - - - - -                        | 2                       |        | 3                  | 1                          |        | 4     | 66                      | 2      | 3                  | 2                          |        | 65    |
| 14 - - - - -                        |                         |        | 12                 | 1                          |        | 13    | 19                      |        | 11                 |                            |        | 30    |
| 13 - - - - -                        |                         |        |                    |                            |        | 16    | 16                      |        |                    |                            |        | 16    |
| 12 AND LESS- - - - -                | 266                     | 6      | 29                 | 6                          | 31     | 328   | 283                     | 17     | 28                 | 7                          | 28     | 363   |
| TOTAL- - - - -                      | 1,188                   | 27     | 40                 | 17                         | 33     | 1,306 | 1,188                   | 30     | 44                 | 14                         | 29     | 1,275 |
| FAIRPORT HARBOR, OHIO               |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 28 - - - - -                        |                         |        |                    | INBOUND                    |        |       | 1                       |        |                    | OUTBOUND                   |        | 1     |
| 26 - - - - -                        | 21                      |        |                    |                            |        | 21    |                         |        |                    |                            |        |       |
| 25 - - - - -                        | 19                      |        |                    |                            |        | 19    |                         |        |                    |                            |        |       |
| 24 - - - - -                        | 2                       |        |                    |                            |        | 2     | 3                       |        |                    |                            |        | 3     |
| 23 - - - - -                        | 19                      |        |                    |                            |        | 19    | 20                      |        |                    |                            |        | 20    |
| 22 - - - - -                        | 11                      |        |                    |                            |        | 11    | 14                      |        |                    |                            |        | 14    |
| 21 - - - - -                        | 2                       |        |                    |                            |        | 2     | 3                       |        |                    |                            |        | 3     |
| 20 - - - - -                        | 9                       |        |                    |                            |        | 9     | 9                       |        |                    |                            |        | 9     |
| 19 - - - - -                        | 1                       |        |                    |                            |        | 1     | 11                      |        |                    |                            |        | 11    |
| 18 - - - - -                        | 5                       |        |                    |                            |        | 5     | 26                      |        |                    |                            |        | 26    |
| 17 - - - - -                        | 13                      |        |                    |                            |        | 13    | 9                       |        |                    |                            |        | 9     |
| 16 - - - - -                        | 3                       |        |                    |                            |        | 3     | 4                       |        |                    |                            |        | 4     |
| 15 - - - - -                        | 7                       |        |                    |                            |        | 7     | 20                      |        |                    |                            |        | 20    |
| 14 - - - - -                        | 5                       |        |                    |                            |        | 5     | 1                       |        |                    |                            |        | 1     |
| 12 AND LESS- - - - -                | 354                     |        |                    |                            |        | 354   | 359                     |        |                    |                            |        | 359   |
| TOTAL- - - - -                      | 471                     |        |                    |                            |        | 471   | 472                     |        |                    |                            |        | 472   |
| ASHTABULA HARBOR, OHIO              |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 29 - - - - -                        |                         |        |                    | INBOUND                    |        |       | 22                      |        |                    | OUTBOUND                   |        | 22    |
| 28 - - - - -                        | 33                      |        |                    |                            |        | 33    | 37                      |        |                    |                            |        | 37    |
| 27 - - - - -                        | 57                      |        |                    |                            |        | 57    | 29                      |        |                    |                            |        | 29    |
| 26 - - - - -                        | 98                      |        |                    |                            |        | 98    | 47                      |        |                    |                            |        | 47    |
| 25 - - - - -                        | 7                       |        |                    | 12                         |        | 19    | 5                       |        |                    |                            |        | 5     |
| 24 - - - - -                        | 30                      |        |                    | 3                          |        | 33    | 24                      |        |                    |                            |        | 24    |
| 23 - - - - -                        | 93                      |        |                    | 12                         |        | 105   | 27                      |        |                    | 4                          |        | 31    |
| 22 - - - - -                        | 30                      |        |                    | 3                          |        | 33    | 42                      |        |                    |                            |        | 42    |
| 21 - - - - -                        | 29                      |        |                    |                            |        | 29    | 70                      |        |                    | 3                          |        | 73    |
| 20 - - - - -                        | 17                      |        |                    | 1                          |        | 18    | 39                      |        |                    | 13                         |        | 52    |
| 19 - - - - -                        | 16                      |        |                    |                            |        | 16    | 33                      |        |                    |                            |        | 33    |
| 18 - - - - -                        | 16                      |        |                    |                            |        | 16    | 10                      |        |                    |                            |        | 10    |
| 17 - - - - -                        | 16                      |        |                    |                            |        | 16    | 8                       |        |                    |                            |        | 8     |
| 16 - - - - -                        | 14                      |        |                    |                            |        | 14    | 3                       |        |                    | 1                          |        | 4     |
| 15 - - - - -                        | 13                      |        |                    |                            |        | 13    | 17                      |        |                    | 2                          |        | 19    |
| 14 - - - - -                        | 9                       |        | 28                 |                            |        | 37    |                         |        | 20                 | 1                          |        | 21    |
| 13 - - - - -                        | 1                       |        |                    |                            |        | 1     | 1                       |        |                    |                            |        | 1     |
| 12 AND LESS- - - - -                | 211                     |        |                    |                            |        | 211   | 213                     |        | 6                  | 6                          |        | 225   |
| TOTAL- - - - -                      | 692                     |        | 28                 | 31                         |        | 711   | 699                     |        | 26                 | 30                         |        | 711   |
| CONNEAUT HARBOR, OHIO               |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 27 - - - - -                        | 179                     |        |                    | INBOUND                    |        | 183   | 83                      |        |                    | OUTBOUND                   |        | 84    |
| 26 - - - - -                        | 73                      |        | 3                  | 4                          |        | 76    | 97                      |        | 3                  | 1                          |        | 100   |
| 25 - - - - -                        | 11                      |        |                    |                            |        | 11    | 4                       |        |                    |                            |        | 4     |
| 24 - - - - -                        | 20                      |        |                    |                            |        | 20    | 41                      |        |                    |                            |        | 41    |
| 23 - - - - -                        | 141                     |        |                    |                            |        | 141   | 86                      |        |                    | 3                          |        | 89    |
| 22 - - - - -                        | 39                      |        |                    |                            |        | 39    | 29                      |        |                    |                            |        | 29    |
| 21 - - - - -                        | 28                      |        |                    |                            |        | 28    | 47                      |        |                    |                            |        | 47    |
| 20 - - - - -                        | 19                      |        |                    |                            |        | 19    | 94                      |        |                    |                            |        | 94    |
| 19 - - - - -                        | 16                      |        |                    |                            |        | 16    | 53                      |        |                    |                            |        | 53    |
| 18 - - - - -                        | 26                      |        |                    |                            |        | 26    | 42                      |        |                    |                            |        | 42    |
| 17 - - - - -                        | 12                      |        |                    |                            |        | 12    | 9                       |        |                    |                            |        | 9     |
| 16 - - - - -                        | 20                      |        |                    |                            |        | 20    | 14                      |        |                    |                            |        | 14    |
| 15 - - - - -                        | 9                       |        |                    |                            |        | 9     | 1                       |        |                    |                            |        | 1     |
| 14 - - - - -                        | 12                      |        |                    |                            |        | 12    |                         |        |                    |                            |        |       |
| 13 - - - - -                        | 2                       |        |                    |                            |        | 2     |                         |        |                    |                            |        |       |
| 12 AND LESS- - - - -                | 680                     |        |                    |                            |        | 680   | 678                     |        |                    |                            |        | 678   |
| TOTAL- - - - -                      | 1,267                   |        | 3                  | 4                          |        | 1,294 | 1,296                   |        | 3                  | 4                          |        | 1,303 |
| ERIE HARBOR, PA.                    |                         |        |                    |                            |        |       |                         |        |                    |                            |        |       |
| 27 - - - - -                        | 1                       |        |                    | INBOUND                    |        | 1     |                         |        |                    | OUTBOUND                   |        |       |
| 26 - - - - -                        | 3                       |        | 2                  |                            |        | 3     | 3                       |        | 1                  |                            |        | 4     |
| 25 - - - - -                        | 3                       |        |                    |                            |        | 3     | 3                       |        |                    |                            |        | 3     |
| 24 - - - - -                        | 2                       |        |                    |                            |        | 2     | 2                       |        |                    |                            |        | 2     |
| 23 - - - - -                        | 3                       |        |                    |                            |        | 3     | 1                       |        |                    | 1                          |        | 2     |
| 22 - - - - -                        | 6                       | 1      |                    | 2                          |        | 6     | 5                       |        |                    |                            |        | 5     |
| 21 - - - - -                        | 12                      |        |                    |                            |        | 12    | 3                       |        |                    |                            |        | 3     |
| 20 - - - - -                        | 9                       |        |                    |                            |        | 9     | 3                       |        |                    |                            |        | 3     |
| 19 - - - - -                        | 4                       |        |                    |                            |        | 4     | 6                       |        |                    |                            |        | 6     |
| 18 - - - - -                        | 2                       |        |                    |                            |        | 2     | 4                       |        |                    |                            |        | 4     |
| 17 - - - - -                        | 4                       |        |                    |                            |        | 4     | 8                       |        |                    |                            |        | 8     |
| 16 - - - - -                        | 3                       |        |                    |                            | 1      | 3     | 2                       |        |                    |                            |        | 2     |
| 15 - - - - -                        | 3                       |        |                    |                            |        | 3     | 20                      |        |                    |                            |        | 20    |
| 14 - - - - -                        | 83                      |        |                    |                            |        | 83    | 83                      |        |                    |                            |        | 83    |
| 12 AND LESS- - - - -                | 1,400                   |        | 2                  | 1                          |        | 1,403 | 1,479                   | 1      | 2                  |                            | 2      | 1,484 |
| TOTAL- - - - -                      | 1,618                   | 1      | 4                  | 3                          | 1      | 1,627 | 1,616                   | 1      | 3                  | 1                          | 2      | 1,623 |

TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY            | DIRECTION              |                         |        |                            |                          |        | DIRECTION              |                         |        |                            |            |        |       |
|-------------------------------|------------------------|-------------------------|--------|----------------------------|--------------------------|--------|------------------------|-------------------------|--------|----------------------------|------------|--------|-------|
|                               | SELF PROPELLED VESSELS |                         |        | NON-SELF PROPELLED VESSELS |                          |        | SELF PROPELLED VESSELS |                         |        | NON-SELF PROPELLED VESSELS |            |        |       |
|                               | DRAFT (FEET)           | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT         | DRY CARGO                | TANKER | TOTAL                  | PASSENGER AND DRY CARGO | TANKER | TOWBOAT OR TUGBOAT         | DRY CARGO  | TANKER | TOTAL |
| BUFFALO HARBOR, N. Y.         |                        |                         |        |                            | INBOUND                  |        |                        |                         |        |                            | OUTBOUND   |        |       |
| 28                            | 7                      |                         |        |                            | 1                        |        | 8                      |                         |        |                            | 1          |        | 1     |
| 27                            | 18                     |                         |        |                            |                          |        | 18                     |                         |        |                            |            |        | 1     |
| 26                            | 29                     |                         |        |                            |                          |        | 29                     | 7                       |        |                            |            |        | 7     |
| 25                            | 14                     |                         |        |                            |                          |        | 14                     | 1                       |        |                            |            |        | 1     |
| 24                            | 3                      |                         |        |                            |                          |        | 3                      | 2                       |        |                            |            |        | 3     |
| 23                            | 91                     |                         | 1      |                            |                          |        | 92                     | 23                      | 1      |                            |            | 1      | 24    |
| 22                            | 91                     |                         | 2      |                            |                          |        | 93                     | 21                      | 1      |                            |            |        | 22    |
| 21                            | 34                     |                         |        |                            | 1                        |        | 35                     | 2                       | 1      |                            | 2          |        | 5     |
| 20                            | 31                     |                         | 1      |                            | 1                        |        | 33                     | 5                       | 1      |                            |            |        | 6     |
| 19                            | 9                      |                         |        |                            | 1                        |        | 10                     | 4                       |        |                            |            |        | 32    |
| 18                            | 74                     |                         |        |                            |                          |        | 74                     | 69                      |        |                            |            |        | 69    |
| 17                            | 6                      |                         |        |                            |                          | 5      | 11                     | 108                     |        |                            |            |        | 106   |
| 16                            |                        |                         |        |                            |                          |        | 49                     | 49                      | 1      | 9                          |            |        | 59    |
| 15                            |                        |                         |        | 3                          |                          |        | 3                      | 14                      | 1      | 3                          |            |        | 18    |
| 14                            | 1                      | 1                       |        | 1                          | 1                        |        | 4                      | 32                      |        | 4                          |            | 2      | 38    |
| 13                            | 2                      |                         |        |                            |                          |        | 2                      | 3                       |        | 1                          |            |        | 4     |
| 12 AND LESS                   | 162                    | 92                      | 43     |                            | 33                       |        | 330                    | 164                     | 93     | 31                         |            | 35     | 323   |
| TOTAL                         |                        | 930                     | 97     | 47                         | 4                        | 39     | 717                    | 930                     | 99     | 40                         | 3          | 38     | 718   |
| NIAGARA RIVER, N. Y.          |                        |                         |        |                            | NORTHBOUND               |        |                        |                         |        |                            | SOUTHBOUND |        |       |
| 21                            | 4                      | 3                       |        |                            |                          |        | 7                      |                         | 12     |                            |            |        | 12    |
| 20                            | 8                      | 9                       |        |                            |                          |        | 17                     |                         | 1      |                            |            |        | 1     |
| 19                            | 5                      | 5                       |        |                            |                          |        | 10                     | 2                       | 11     |                            |            | 5      | 18    |
| 18                            | 1                      |                         |        |                            |                          |        | 1                      | 3                       |        |                            |            | 2      | 5     |
| 17                            |                        |                         |        |                            | 1                        |        | 1                      | 8                       |        |                            |            | 1      | 9     |
| 16                            |                        |                         |        |                            |                          | 1      | 1                      |                         |        | 2                          | 1          |        | 3     |
| 15                            |                        | 9                       |        |                            |                          | 1      | 9                      |                         | 1      |                            |            | 1      | 2     |
| 14                            |                        |                         |        | 2                          |                          |        | 2                      |                         |        | 1                          |            |        | 1     |
| 13                            | 1                      | 92                      | 14     |                            | 18                       |        | 125                    | 1                       | 92     | 18                         |            | 1      | 112   |
| 12 AND LESS                   |                        |                         |        |                            |                          |        |                        |                         |        |                            |            |        |       |
| TOTAL                         | 14                     | 114                     | 16     |                            | 20                       |        | 164                    | 14                      | 117    | 21                         | 1          | 10     | 163   |
| PORT OF BUFFALO, N. Y.        |                        |                         |        |                            | INBOUND                  |        |                        |                         |        |                            | OUTBOUND   |        |       |
| 28                            | 7                      |                         |        |                            | 1                        |        | 8                      |                         |        |                            | 1          |        | 1     |
| 27                            | 18                     |                         |        |                            |                          |        | 18                     |                         |        |                            |            |        | 1     |
| 26                            | 29                     |                         |        |                            |                          |        | 29                     | 7                       |        |                            |            |        | 7     |
| 25                            | 14                     |                         |        |                            |                          |        | 14                     | 1                       |        |                            |            |        | 1     |
| 24                            | 3                      |                         |        |                            |                          |        | 3                      | 2                       |        |                            |            |        | 3     |
| 23                            | 52                     | 3                       |        |                            |                          |        | 55                     | 22                      | 10     |                            |            | 1      | 32    |
| 22                            | 92                     | 3                       |        |                            |                          |        | 95                     | 20                      | 3      |                            |            |        | 23    |
| 21                            | 38                     |                         |        |                            | 1                        |        | 39                     | 2                       | 2      |                            | 2          |        | 6     |
| 20                            | 39                     | 10                      |        |                            | 1                        |        | 50                     | 5                       | 2      |                            |            |        | 7     |
| 19                            | 10                     | 5                       |        |                            | 1                        |        | 16                     | 29                      | 11     |                            |            | 5      | 45    |
| 18                            | 77                     |                         |        |                            |                          |        | 77                     | 72                      |        |                            |            |        | 74    |
| 17                            | 9                      |                         |        |                            |                          | 6      | 15                     | 111                     |        |                            |            | 1      | 112   |
| 16                            | 1                      |                         |        |                            |                          |        | 1                      | 48                      | 1      | 11                         | 1          |        | 61    |
| 15                            |                        | 9                       | 3      |                            | 1                        |        | 9                      | 14                      | 2      | 3                          |            | 1      | 20    |
| 14                            | 1                      | 1                       |        |                            | 1                        |        | 6                      | 32                      |        | 9                          |            | 2      | 39    |
| 13                            | 2                      |                         |        |                            |                          |        | 2                      | 3                       |        | 1                          |            |        | 4     |
| 12 AND LESS                   | 163                    | 169                     | 57     |                            | 48                       |        | 377                    | 165                     | 102    | 49                         |            | 39     | 355   |
| TOTAL                         | 559                    | 136                     | 63     | 4                          | 56                       |        | 814                    | 533                     | 133    | 69                         | 4          | 51     | 790   |
| OSWEGO HARBOR, N. Y.          |                        |                         |        |                            | INBOUND                  |        |                        |                         |        |                            | OUTBOUND   |        |       |
| 26                            | 1                      |                         |        |                            |                          |        | 1                      |                         |        |                            |            |        |       |
| 25                            | 1                      |                         |        |                            |                          |        | 1                      |                         |        |                            |            |        |       |
| 24                            | 3                      |                         |        |                            | 19                       |        | 22                     |                         |        |                            |            | 4      | 4     |
| 23                            |                        | 1                       |        |                            |                          |        | 1                      |                         |        |                            |            |        |       |
| 22                            | 2                      | 2                       |        |                            | 1                        | 34     | 39                     |                         |        |                            |            |        |       |
| 21                            | 7                      | 5                       |        |                            |                          | 1      | 13                     | 2                       |        |                            |            |        | 2     |
| 20                            | 9                      | 9                       |        |                            |                          |        | 14                     |                         |        |                            |            |        |       |
| 19                            | 2                      |                         |        |                            |                          |        | 2                      | 11                      |        |                            |            |        | 12    |
| 18                            |                        |                         |        |                            | 1                        |        | 1                      | 3                       | 2      |                            | 1          |        | 5     |
| 17                            |                        |                         |        | 9                          | 2                        | 1      | 2                      | 9                       |        | 9                          | 1          | 1      | 13    |
| 16                            | 1                      |                         |        |                            | 1                        |        | 2                      | 3                       | 2      |                            |            |        | 5     |
| 15                            |                        |                         |        |                            |                          |        |                        |                         |        |                            |            |        |       |
| 14                            | 2                      |                         | 26     |                            | 1                        |        | 28                     | 1                       | 2      | 24                         |            |        | 27    |
| 13                            |                        |                         | 5      |                            |                          |        | 5                      | 6                       |        | 6                          |            |        | 6     |
| 12 AND LESS                   | 132                    |                         | 6      |                            | 35                       |        | 173                    | 3                       | 5      | 5                          |            | 85     | 215   |
| TOTAL                         | 160                    | 13                      | 46     | 5                          | 91                       |        | 315                    | 145                     | 13     | 44                         | 2          | 90     | 294   |
| BANGOR HARBOR, N. Y.          |                        |                         |        |                            | INBOUND                  |        |                        |                         |        |                            | OUTBOUND   |        |       |
| TOTAL, 5 AND LESS             | 474                    |                         |        |                            |                          |        | 474                    | 476                     |        |                            |            |        | 476   |
| CAPE VINCENT, N. Y.           |                        |                         |        |                            | INBOUND                  |        |                        |                         |        |                            | OUTBOUND   |        |       |
| TOTAL, 6 AND LESS             | 2,765                  |                         |        |                            |                          |        | 2,765                  | 2,764                   |        |                            |            |        | 2,764 |
| DUNKIRK HARBOR, N. Y.         |                        |                         |        |                            | INBOUND                  |        |                        |                         |        |                            | OUTBOUND   |        |       |
| TOTAL, 5 AND LESS             | 388                    |                         |        |                            |                          |        | 388                    | 388                     |        |                            |            |        | 388   |
| GREAT SODUS BAY HARBOR, N. Y. |                        |                         |        |                            | NO VESSEL TRIPS REPORTED |        |                        |                         |        |                            |            |        |       |

## BUFFALO, N. Y., DISTRICT

## TRIPS AND DRAFTS OF VESSELS

| HARBOR OR WATERWAY  | DIRECTION               |        |                    |                            |        |                         | DIRECTION |                        |                    |           |                            |  |       |       |
|---|-------------------------|--------|--------------------|----------------------------|--------|-------------------------|-----------|------------------------|--------------------|-----------|----------------------------|--|-------|-------|
|   | SELF PROPELLED VESSELS  |        |                    | NON-SELF PROPELLED VESSELS |        |                         | TOTAL     | SELF PROPELLED VESSELS |                    |           | NON-SELF PROPELLED VESSELS |  |       | TOTAL |
|   | PASSENGER AND DRY CARGO | TANKER | TUGBOAT OR TUGBOAT | DRY CARGO                  | TANKER | PASSENGER AND DRY CARGO |           | TANKER                 | TUGBOAT OR TUGBOAT | DRY CARGO | TANKER                     |  |       |       |
| DRAFT (FEET)  |                         |        |                    |                            |        |                         |           |                        |                    |           |                            |  |       |       |
| KELLEYS ISLAND, OHIO<br>TOTAL, 7 AND LESS - - - - -                 | 3,244                   |        |                    | INBOUND                    |        | 3,244                   | 3,244     |                        |                    |           | OUTBOUND                   |  | 3,244 |       |
| NIAGARA FALLS, N. Y.  |                         |        |                    | NO VESSEL TRIPS REPORTED   |        |                         |           |                        |                    |           |                            |  |       |       |
| OSDENSEBURG HARBOR, N. Y.<br>TOTAL, 22 AND LESS - - - - -           | 11                      | 4      | 28                 | INBOUND                    | 24     | 67                      | 19        | 3                      | 38                 | OUTBOUND  | 26                         |  | 77    |       |
| PORT CLINTON HARBOR, OHIO<br>TOTAL, 16 AND LESS - - - - -           | 1,891                   |        |                    | INBOUND                    |        | 1,891                   | 1,903     |                        |                    | OUTBOUND  |                            |  | 1,903 |       |
| ROCHESTER (CHARLOTTE) HARBOR, N. Y.<br>TOTAL, 19 AND LESS - - - - - | 142                     |        |                    | INBOUND                    |        | 142                     | 190       |                        |                    | OUTBOUND  |                            |  | 190   |       |
| SACKET'S HARBOR, N. Y.  |                         |        |                    | NO VESSEL TRIPS REPORTED   |        |                         |           |                        |                    |           |                            |  |       |       |
| TONAWANDA HARBOR, N. Y.   |                         |        |                    | NO VESSEL TRIPS REPORTED   |        |                         |           |                        |                    |           |                            |  |       |       |
| VERMILION HARBOR, OHIO<br>TOTAL, 9 AND LESS - - - - -               | 844                     |        |                    | INBOUND                    |        | 144                     | 842       |                        |                    | OUTBOUND  |                            |  | 842   |       |
| WADDINGTON HARBOR, N. Y.  |                         |        |                    | NO VESSEL TRIPS REPORTED   |        |                         |           |                        |                    |           |                            |  |       |       |

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